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THE EXPERT'S ASSISTANT.

A COMPENDIUM

GIVING RULES FOR THE CERTAIN DETECTION OF ALL KINDS OF ERRORS IN
POSTING, ETC.—HOW TO DETERMINE WHAT EACH SIDE OF THE TRIAL
BALANCE SHOULD FOOT INDEPENDENT OF THE LEDGER, BOTH BY
TOTALS AND DIFFERENCES.—THE MOST COMPLETE AND
EXHAUSTIVE TREATISE ON TRANSPOSITIONS AND
MISPLACEMENTS EVER PUBLISHED, SHOWING
THE EXACT AMOUNT OF THE ERROR.

THE LATEST AND BEST RULES FOR AVERAGING ACCOUNTS, INTEREST,
FOREIGN EXCHANGE, RAPID FOOTING AND EXTENSIONS.
—HOW STOCK COMPANIES ARE FORMED, AND HOW
TO OPEN AND KEEP THEIR BOOKS—BAL-
ANCE SHEETS, BUSINESS
LAW, ETC.

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BEN S. KNOWLTON.

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THE EXPERT'S ASSISTANT.

As the title of this work indicates, it is not intended as a treatise on book-keeping, but as an assistant to those already actively engaged in the profession, and for advanced students who may desire to avail themselves of its help. Therefore, but little instruction will be attempted as to the ordinary routine work, and only such examples and forms given as may serve to illustrate the principles, etc., involved.

The idea of the author has been to present, in as concise form as possible, tables, rules and forms that will lighten and expedite the work of the accountant, thereby enabling him not only to do his work with more ease to himself, but, what is of far greater importance, give better satisfaction to his employer.

The tables and forms presented it is not claimed are all new or original, although some of them have never before been published, but are such as are required almost daily, and if published are scattered through many works, not to be easily obtained when most needed. Their value and use will be appreciated on examination.

The rules given are the result of many years' practical experience in all classes of accounts, and are believed to be the best and shortest for the purposes indicated.

The rules on INVERSIONS AND MISPLACEMENTS are believed to be the most complete and exhaustive ever published, and are to a great extent entirely original, especially as regards misplacements, which shows what has never before been attempted, viz., the *exact amount in full that has been misplaced; not an approximation or a portion, but every figure composing the sum*, thus enabling the accountant to locate and find the error at once, as it gives him the only *possible amount* that could make it.

The table of possible inversions or transpositions shows at a glance how many and what inversions may be made with any given difference. Although it is probably used by experts, they have to stop and figure it out every time they have occasion to use one. It is now published for reference for the first time.

The rules for *determining not only the dropped figure in any sum, but all the figures of that sum* to the left of the one dropped, are entirely new and original, and will be found of great value in detecting that class of errors.

The method of determining what the footing of the trial balance should be when taken by the Ledger footings, although not generally known, has been in use by experts for years. The method where the trial balance is taken by differences is claimed to be new and original.

By these methods one can determine exactly what the footing of his trial balance should be, independent of the Ledger, and thus ascertain the errors, if any, on each side, and knowing just what to look for, will, in connection with the other methods given, usually enable the accountant to locate and detect the errors at once, thus obviating the necessity of the tedious process of checking each item on both sides until found, as is generally practiced, thereby effecting a great saving in time and annoyance.

JOURNALIZING.

In the Journal, in its simplest form, only the Ledger headings, or names of the various accounts appear, and in order that the various amounts making up those accounts should appear in their proper places, it is necessary that they should be properly journalized, giving each account its proper debit and credit.

The terms debit and credit are generally understood, but it often happens that in complex entries the book-keeper is puzzled as to the proper way in which to make the Journal entry from the statement on his blotter so as to get the proper debits and credits.

The following simple rule will enable him to do so without any trouble, viz.:

Who, or whatever costs is debtor. Who, or whatever produces is creditor.

By applying this rule to each item, any entry, no matter how complex, may be readily arranged under its proper Ledger heading, and in its proper place. As an instance, suppose you found on your blotter the following history, or statement of a transaction:

March 3, 1890.

| | | | | |
|--|--------|----|-------|----|
| Bought of John Smith, Lot 5, Blk. 11, Brown's Addition to St. Paul, for..... | 3,500 | 00 | | |
| Also received from him our note, dated January 1st, @ 60 days for..... | 1,000 | 00 | | |
| Interest on same @ 7%..... | 12 | 12 | | |
| Also account against S. Jones..... | 50 | 00 | 4,562 | 12 |
| In payment of which we have sold him 250 bbls. Flour @ 7.00..... | 1,750 | 00 | | |
| And given him R. Taylor's note @ 4 mos. from January 1st for..... | 650 | 00 | | |
| Interest accrued on same 2 mos. @ 8%.. | 8 | 67 | | |
| And our note @ 1 year @ 6% for..... | 1,500 | 00 | 3,908 | 67 |
| Cash for bal. as per Cash Book..... | 653.45 | | | |

In making the Journal entries of the foregoing, the first step is to determine what is debit and what is credit by the rule. On analyzing it, we find that:

| | | |
|---|-------|----|
| Real Estate is debit, as it cost..... | 3,500 | 00 |
| Bills Payable is debit, as it cost..... | 1,000 | 00 |
| Interest is debit, as it cost..... | 12 | 12 |
| S. Jones is debit, as he cost..... | 50 | 00 |
| John Smith is credit, as he produced..... | 4,562 | 12 |

| | | |
|---|-------|----|
| Merchandise is credit, as it produced..... | 1,750 | 00 |
| Bills Receivable is credit, as it produced..... | 650 | 00 |
| Interest is credit, as it produced..... | 8 | 67 |
| Bills Payable is credit, as it produced..... | 1,500 | 00 |
| John Smith is debit, as he cost..... | 3,908 | 67 |

As the Cash Book shows a debit for the balance to John Smith, it does not appear on the Journal.

The above may be simplified or condensed so as to read on the Journal as follows:

March 3, 1890.

| | | | | | |
|---------------------------|-------|----|-------|----|--|
| Sundries Dr. to Sundries, | | | | | |
| Real Estate..... | 3,500 | 00 | | | |
| Bills Payable..... | 1,000 | 00 | | | |
| Interest..... | 12 | 12 | | | |
| S. Jones..... | 50 | 00 | | | |
| To Merchandise..... | | | 1,750 | 00 | |
| To Bills Receivable... .. | | | 650 | 00 | |
| To Interest | | | 8 | 67 | |
| To Bills Payable..... | | | 1,500 | 00 | |
| To John Smith..... | | | 653 | 45 | |

BOOKS OF ACCOUNT.

The books in general use consist of—

The Day Book, or Blotter, in which is recorded all transactions as they occur (except cash), and should give, in as brief terms as possible, a full history of each transaction. The entries may be made by anyone.

The Cash Book, in which is entered all cash transactions, receipts and disbursements. Entries, as a rule, in the Cash Book should only be made by the person responsible for the cash. A very good method is to keep a petty Cash Book, on which all cash transactions are entered as they occur, and the same balanced daily, and a general Cash Book, kept by the book-keeper only, to which all entries in the petty Cash Book, in a consolidated form, should be transferred (such as Merchandise, Sales, Expense, etc.), and if checks on the bank are treated as cash, the bank should be credited, and the individual and other accounts debited, as they would not appear on the petty Cash Book. The general Cash Book need not be balanced more than once a month and the total receipts and disbursements posted but once a month. By using a three-column Cash Book the Merchandise, Cash Sales and Expense account need not be posted but once a month, as will be shown in the example given.

The Journal, which is kept by the book-keeper, shows each account arranged under its proper Ledger heading, ready for posting, and requires no further explanation than that already given, as the history of each transaction appears on the Day Book, or Blotter, and it is only a useless repetition to make them on the Journal, as the original entry is the only one good in law.

The Ledger contains all accounts pertaining to the business, under their proper headings, as transferred from the Cash Book and Journal.

There are a great many other books in use to suit the convenience of the business, or ideas of the proprietors, such as Merchandise Sales Books, on which appear all sales made for cash or credit (in some cases credit sales only), and postings made from it direct, without appearing on the Journal. In the first instance, cash sales must be transferred to the Cash Book daily, and credit sales extended into a separate column from which the Merchandise credit can be posted daily or monthly, as preferred. Invoice Books are also used, in which all credit purchases of merchandise are entered. These can also be posted direct, without going on the Journal. But they are practically a part of the Day Book, or Blotter, and only serve to scatter the record of the business through several books, instead of all being on one, and forming a continuous record of the business from day to day. In many large houses these and other auxiliary books are a necessity, as it would be almost impossible to make a record of all their transactions on a single book. But, as a general rule, the fewer the number of books, and the simpler they are, the better, as the more complicated they are the greater the liability to error, as every transfer from one book to another increases it and makes it more difficult to discover.

A trial balance should be taken off every month, not only for the purpose of proving the correctness of the books, or ascertaining and correcting any errors that may have been made, but for the information and guidance of the proprietors, who, by an intelligent study of the same, can see just how their business is going from month to month, and regulate it accordingly; watch not only individual credits, to see that they are not improperly extended or increased, but their total line of credit sales, to see that they are not increased beyond their ability to carry with safety. Many houses, apparently doing a large and prosperous business, have been swamped by neglecting to study their accounts; found payments falling due that must be met, and nothing to meet them with except a large line of unavailable accounts on their books, that might have been avoided if they had studied their books as the mariner does his charts, neglect in either case being almost surely fatal.

At least once a year a balance sheet should be made, inventories taken, dead or worthless accounts closed out, and a new start taken with clean sheets. Many persons object to closing doubtful accounts into Profit and Loss at the time of making the balance sheet, under the impression that it finally disposes of them, and that they have no further claim on them. This is a mistaken notion, and only makes the profits appear larger than they really are and increases the assets by worthless accounts; and, in consequence, the balance sheet does not show the exact state of the business, as it should do. If, as is often the case, anything should be realized from such accounts, it is very easy to restore them by crediting Profit and Loss with the amount.

EXPERT BOOK-KEEPING.

Expert accountants (and all who follow the profession should be experts) should, in addition to mastering all the details of the business, familiarize themselves with the principles of commercial law and customs, as "commercial custom, in the absence of direct law upon the subject, is law;" the laws governing the formation and conduct of corporations in their states; the relations of principals and agents; the collection of accounts, and those governing promissory notes; be able to draw up any ordinary agreement in a proper and legal form without the assistance of a lawyer; in fact, should be conversant with all kinds of business forms and usages, and thus enhance the value of their services to their employer and raise the standard of their profession.

In book-keeping, as in any other business or profession, "*Knowledge is power*," and the more general information you have the higher you will rank.

TRIAL BALANCES.

The taking of a trial balance each month is necessary to prove the correctness of the Ledger, and to detect and correct the errors, if any. This involves a great deal of labor, especially when there are a large number of accounts on the Ledger, and when errors have been made. Under the old methods, the only means of detecting them was by the slow and tedious process of going over and

checking each entry until the errors were found; and as there may be, and usually are, errors on both the debit and credit sides, the difference affords no clue to the actual ones on either side.

A method by which the footings of each side of the trial balance can be determined independent of the Ledger cannot but prove a great saving in time and labor, as it enables the accountant to determine the *exact amount of errors on each side*, and thus, knowing definitely just what to look for on either side, be enabled to locate them much more readily. This, in connection with the rules for finding errors of *misplacements and transpositions*, which in cases of misplacements give the full amount of the sum misplaced, and in transpositions showing all possible transpositions, render the discovery of errors a comparatively easy matter, and avoids, in most cases, the necessity of checking through the month's business.

Trial balances are taken in two ways: first, by the total footings of each side of every open account on the Ledger; and, second, by differences—that is, the balance of each account. Each method has its advantages and advocates, which it is needless to discuss here, leaving each one to form and enjoy his own opinion.

One very great advantage claimed for trial balances by totals over that by differences has been that while the footings of the trial balance could be determined by that method independent of the Ledger, "*it could not be done when taken by differences.*" This is a mistake, *as it can be done* (as will be fully shown) *as readily and certainly when taken by differences as by totals*, with this difference, that while the same figures are used for both sides when taken by totals to show the footing of the trial balance, when taken by differences the result is obtained by entirely different figures for each side, and independent of each other, thus being a check each on the other.

TRIAL BALANCES BY TOTALS.

When a trial balance is taken by totals the footings of the previous trial balance will be increased by all amounts posted to the Ledger from all sources, *i. e.*, Cash Book, Journal, etc., and decreased by the amount of all accounts which have been closed during the month, and by the amount closed out, where balances have been brought down.

TRIAL BALANCES BY DIFFERENCES.

To ascertain what the footing of each side of the trial balance should be when taken by differences, independent of the Ledger:

The balance of Merchandise account being on the debit side, the debit side will be increased by all purchases of merchandise, either for cash or credit, during the month; by all cash payments on accounts showing a debit balance, such as Expense, Interest, Freight, etc.; by all credit or cash purchases of property other than merchandise, unless paid for in merchandise; by the increase in the cash balance (not the balance) during the month over the previous one; by the increase in the balance in bank during the month.

If the balance of Merchandise account being on the debit side the previous month, should appear on the credit side for the current month, then the debit side would be increased by such balance in addition to the purchases.

The balance of Merchandise account being on the *credit side for the previous and current months*, the debit side will be increased by the credit sales instead of purchases, not taking the cash sales or purchases into account. The debit balance will be decreased by all receipts on accounts and bills receivable, either in cash or merchandise, that show a debit balance, by credit sales of merchandise to persons having a credit balance, and by receipts (either in cash, account or note) on shipments on joint account. It will also be decreased by the decrease of the balance of cash on hand during the month, and by the decrease in the balance in bank during the month, and the cash sales of merchandise for the month if the balance of Merchandise is on the debit side. The difference between the increase and decrease, added to or subtracted from the total of the previous month's trial balance, will give the amount that the debit side of the trial balance should foot.

The credit side, the balance of Merchandise being on the debit side, will be increased by all investments in the business during the current month; by all credit purchases of merchandise or other property, either on account, note or mortgage, during the month; by the net receipts during the month from interest, commission, profit and loss (if the balances of the accounts are on the credit side); and by the balance to the credit of shipments on joint account for the month.

If the balance of Merchandise account being on the *debit side the previous month, should appear on the credit side* for the current month, the credit side would be increased by such balance in addition to the credit purchases. The cash sales and purchases are not taken into account when the balance is on the debit side.

The balance of Merchandise account for the previous and current months being on the credit side, it will be increased by the credit and cash sales.

The credit side will be decreased by all payments made, either in cash or merchandise, during the month on accounts showing a credit balance; by the net amount paid on Interest and similar accounts if they show a credit balance; and if the balance of Merchandise account be on the credit side for the previous month, by the amount of the cash purchases for the month.

The difference added to or subtracted from the total of the previous month's trial balance will give the footing of the credit side.

In cases where one kind of property is exchanged for another (except merchandise), where there is a profit or loss on the property exchanged, the debit side will be increased by the net profit or decreased by the loss.

In cases of merchandise companies that are not closed out, the debit side will be increased by the total cost, taking no account of any sales except for cash. If there should be any, they would decrease the debit side. In cases of shipments on joint account to others, where the property shipped has not entered into the Merchandise account, and the shipment has not been closed, the debit side will be increased by the amount charged against it, including the profit, or less the loss, if account sales have been rendered.

The credit side will be increased by the profit on exchange of property, other than merchandise, and decreased by the loss. It will be increased by the cost of merchandise companies, less the cash, if any charged against them, and by the cost of shipments on joint account, where the shipment has not entered into the Merchandise account, and the shipment has not been closed.

All sums drawn out of the business by the proprietors will decrease the credit balance, the same as payments to parties having a credit balance.

The following transactions are given in order to illustrate the methods fully, the Ledger accounts being transferred from one month to another, simply for convenience in reference and to avoid confusion in the trial balances:

Where the trial balances are taken by totals, it will be found convenient to use a small blank book or paper, which can be placed in the back of the Ledger, and secured by a rubber band, in which to enter the amount of accounts as they are balanced, or the amount closed out when balances are brought down.

Where the trial balance is taken by differences, a similar arrangement will be found convenient in which to enter the amounts received each day on debit accounts, and such other items as go to increase or decrease the debit side. The credit and cash purchases and sales of merchandise need not be entered, as they can be readily ascertained from the Journal and Cash Book, or taken from the Ledger at the close of the month. Payments and other items that go to increase or decrease the credit side should also be kept in a similar manner. In this way the book-keeper will find that it will take but a few minutes to determine what the correct footing of each side of his trial balance should be, and the amount of the errors, if any, on each side, and thus know exactly what to look for, saving much time and more annoyance, and besides having the satisfaction of knowing that his trial balance is *absolutely correct*, both sides having been proved independent of the other, and by entirely different figures. Under the old system, while the trial balance might show the books as being correct, an error in posting to one side might be offset by an error in footing on the other, and, having no other proof than the mere fact of having a balance, would never be discovered.

It has not been thought necessary to make any errors in the transactions in order to show the manner of detecting them, as that is fully shown in the articles on "Transpositions," "Misplacements," and "Dropped Figures," while those of omission would appear from the differences indicated by the proof of the footings.

The examples have been made very full and varied, in order to cover as many different kinds of accounts as possible, and show the application of the method to the various conditions. It is believed

that they will be readily understood in connection with the explanations appended.

The foregoing method is based on the theory that everything that goes to increase the assets of the business, in the way of property and representative accounts, increases the debit side of the trial balance, Expense and similar representative accounts being considered an asset until closed into Profit and Loss (personal accounts are not considered, as they are simply an exchange of one asset for another), and that all receipts on personal and other accounts that diminish the assets, real or apparent, decrease the debit side.

In the same manner, the credit side represents the liabilities, and everything that goes to increase them adds to the credit side, and payments made on accounts, etc., that go to diminish them, decreases the credit side.

In the case where the balance of the Merchandise account is on the debit side, the assets and liabilities are each increased by the credit purchases: the assets, because we have that much more merchandise on hand; the liabilities, because we have become indebted to that extent. The cash purchases increase the debit side, because we have diminished one asset (as shown by the cash balance) to increase another. The cash sales decrease the debit side for a similar reason, the cash on hand or in bank being increased, while the balance, or amount of merchandise, on hand has been diminished. Where the balance of Merchandise account appears on the credit side, it becomes an apparent liability, and the cash and credit sales increase that liability, and, in consequence, increase the credit side. The debit side is increased by the credit sales, as it represents an increase in the amount due on personal accounts, and therefore an asset. The cash purchases decrease the credit side when the balance of merchandise is on the credit side, because it diminishes the apparent liability. The decrease in assets is accounted for by the decrease in cash balance.

MERCANTILE BOOKS:

DAY BOOK, CASH BOOK, JOURNAL, LEDGER.

TRIAL BALANCES.

PROOFS BY TOTALS AND DIFFERENCES.

January 1st, 1890.

| | | | | |
|--|--------|----|--------|----|
| Bot. of B. K. Marshall, Store on East Third street for..... | 13,500 | 00 | | |
| Fixtures, etc., contained in same..... | 1,500 | 00 | 15,000 | 00 |
| On which we have assumed mortgage for Interest due on same to date..... | 10,000 | 00 | | |
| Gave him note @ 1 year with interest @ 7%..... | 150 | 00 | | |
| | 4,850 | 00 | 15,000 | 00 |
| Bot. of Perry, Nichols & Co., @ 4 mos., 10 casks O. P. Brandy, 550 gals.....@ 2.50 | 1,375 | 00 | | |
| 50 bbls. O. C. Whisky, 2,050 gals....@ 1.75 | 3,587 | 50 | | |
| Cartage..... | 3 | 00 | 4,965 | 50 |
| Bot. of Eureka Packing Co., for note @ 60 days, 3,500 cases Canned Goods, asstd., @ 4.00 | 14,000 | 00 | | |
| January 3d. | | | | |
| Bot. of C. A. Pillsbury & Co., @ 30 days, 500 bbls. XXX Flour.....@ 6.15 | 3,075 | 00 | | |
| Bot. of Armour Packing Co., @ 30 days, 20,000 lbs. Bacon Sides.....@ 7 1/4 | 1,450 | 00 | | |
| 100 bbls. Mess Pork.....@ 12 50 | 1,250 | 00 | 2,700 | 00 |
| January 4th. | | | | |
| Bot. of P. Lorillard & Co., for note @ 6 mos., Cigars and Tobacco, as per invoice..... | 2,750 | 00 | | |
| Bot. of New York Refining Co., @ 3 mos., Sugar and Syrups, as per invoice..... | 5,187 | 50 | | |
| January 5th. | | | | |
| Sold A. H. Jones & Co., Denver, Colo., @ 3 mos., 2 casks O. P. Brandy, 115 gals.....@ 3.20 | 352 | 00 | | |
| 10 bbls. O. C. Whisky, 410 gals.....@ 2.15 | 881 | 50 | | |
| Cartage..... | | 50 | 1,234 | 00 |
| January 7th. | | | | |
| Bot. of Jas. Kirk & Co., @ 6 mos., Soap, etc., as per invoice..... | 650 | 00 | | |
| Bot. of N. K. Fairbanks & Co., @ 30 days, 10,000 lbs. Lard.....@ 9 | 900 | 00 | | |
| Sold H. Wilson & Co., Fargo, Dak., @ 60 days, 25 bbls. XXX Flour.....@ 7.25 | 181 | 25 | | |
| 1,000 lbs. Bacon Sides.....@ 9 1/2 | 95 | 00 | | |
| 5 bbls. Mess Pork.....@ 15.00 | 75 | 00 | | |
| 1 bbl. O. C. Whisky, 41 gals.....@ 2.50 | 102 | 50 | | |
| Cartage..... | | 50 | 454 | 25 |

January 8th.

| | | | | |
|--|-------|----|-------|----|
| Bot. of Oriental Tea Co., @ 4 mos., Coffee, Tea and Spices, as per invoice.... | 5,750 | 00 | | |
| Sold W. H. Johnson & Co., Brainerd, Minn., 25 cases Canned Peaches.....@ 6.50 | 162 | 50 | | |
| 25 cases Canned Apricots.....@ 7.00 | 175 | 00 | | |
| 25 cases Canned Plums.....@ 6.75 | 168 | 75 | | |
| 25 cases Canned Salmon.....@ 7.00 | 175 | 00 | | |
| 100 boxes Soap, 6,000 lbs.....@ 4 | 240 | 00 | | |
| 50 lbs. Climax Plug.....@ 40 | 20 | 00 | | |
| 2 m. Key West Cigars.....@ 50.00 | 100 | 00 | | |
| 500 lbs. Bacon Sides.....@ 10 | 50 | 00 | | |
| Cartage..... | 50 | | 991 | 75 |
| January 9th. | | | | |
| Sold B. Simon & Co., for their note @ 60 days, 8 casks O. P. Brandy, 440 gals.....@ 3.10 | 1,364 | 00 | | |
| 39 bbls. O. C. Whisky, 1,599 gals..@ 2.10 | 3,357 | 90 | | |
| 5 m. Key West Cigars.....@ 48.00 | 240 | 00 | | |
| 10 m. G. S. Cigars.....@ 30.00 | 300 | 00 | 5,261 | 90 |
| Sold Fisher & Kellogg, City, 100 lbs. Rio Coffee.....@ 25 | 25 | 00 | | |
| 100 lbs. Y. H. Tea.....@ 50 | 50 | 00 | 75 | 00 |
| January 10th. | | | | |
| Sold E. H. Taylor & Co., Stillwater, Minn., 10 bbls. Sugar, 2,850 lbs@ 10 | 285 | 00 | | |
| 2 bbls. Syrup, 90 gallons.....@ 55 | 49 | 50 | | |
| 100 lbs. Rio Coffee.....@ 25 | 25 | 00 | | |
| 100 lbs. Java Coffee.....@ 28 | 28 | 00 | | |
| 100 lbs. Y. H. Tea.....@ 50 | 50 | 00 | | |
| 100 lbs. G. P. Tea.....@ 55 | 55 | 00 | | |
| Cartage..... | 50 | | 493 | 00 |
| January 11th. | | | | |
| Bot. of McVeigh & Co., @ 4 mos., Mdse., as per invoice..... | 3,785 | 00 | | |
| Sold H. P. Upham & Co., City, 50 bbls. Mess Pork.....@ 15.00 | 750 | 00 | | |
| 10,000 lbs. Bacon Sides.....@ 9 | 900 | 00 | | |
| 20 bbls. A Sugar, 5,560 lbs.....@ 9½ | 528 | 20 | | |
| 1,000 cases Canned Goods, asstd..@ 6.00 | 6,000 | 00 | | |
| 250 bbls. XXX Flour.....@ 7.25 | 1,812 | 50 | 9,990 | 70 |
| Cr. | | | | |
| Received from them on above, 50 Shares First Natl. Bank Stock, @ 125.00 | 6,250 | 00 | | |

January 12th.

| | | | | |
|---|-------|----|-------|----|
| Received of A. Fink & Co., Chicago (Mdse. Co. A), to be sold on joint acct., each one-half, | | | | |
| 100 bbls. Vinegar @ 7.00..... | 700 | 00 | | |
| 50 bbls. Pickles @ 15.00..... | 750 | 00 | | |
| | 1,450 | 00 | | |
| Our one-half of above invoice..... | 725 | 00 | | |
| January 14th. | | | | |
| Bot. of Jas. Wilson & Co., | | | | |
| 25 bbls. Tallow, 6,250 lbs.....@ 4 | 250 | 00 | | |
| Sold Jas. Kirk & Co., | | | | |
| 25 bbls. Tallow, 6,250 lbs.....@ 4½ | 281 | 25 | | |
| January 15th. | | | | |
| Bot. of D. Henning & Co., City, | | | | |
| 1,000 bush. Potatoes.....@ 60 | 600 | 00 | | |
| 250 bbls. Apples.....@ 2.25 | 562 | 50 | 1,162 | 50 |
| Shipped above to A. Davidson & Co.. | | | | |
| Memphis, Tenn., on joint account, each one-half, | | | | |
| A. Davidson & Co.'s one-half..... | 581 | 25 | | |
| January 16th. | | | | |
| Sold P. H. Kelly & Co., from Mdse. Co. A, | | | | |
| 50 bbls. Vinegar.....@ 8.00 | 400 | 00 | | |
| January 17th. | | | | |
| Sold Donaldson & Co., St. Cloud, Minn., | | | | |
| 5 bbls. Sugar, 1,470 lbs.....@ 10½ | 154 | 35 | | |
| 1,200 lbs. Bacon.....@ 9½ | 114 | 00 | | |
| 1 bbl. Syrup, 44 gals.....@ 56 | 24 | 64 | | |
| 60 lbs. Y. H. Tea.....@ 50 | 30 | 00 | | |
| Cartage..... | 50 | | 323 | 49 |
| January 18th. | | | | |
| Sold Beupre, Keogh & Co., from Mdse. Co. A, | | | | |
| 50 bbls. Vinegar.....@ 8.00 | 400 | 00 | | |
| 10 bbls. Pickles.....@ 17.50 | 175 | 00 | 575 | 00 |
| January 19th. | | | | |
| Sold Allen, Moon & Co., from Mdse. Co. A, | | | | |
| 40 bbls. Pickles.....@ 17.50 | 700 | 00 | | |

January 21st.

| | | | | |
|---|-------|----|-----|----|
| Closed Mdse. Co. A, and rendered A. Fink & Co., account sales, A. Fink & Co., credit for their one-half of shipment..... | 725 | 00 | | |
| A. Fink & Co., credit for their one-half of net gain..... | 59 | 07 | | |
| Storage and Advertising..... | 15 | 00 | | |
| Commission on 1,675.00 @ 2½%..... | 41 | 87 | | |
| Our one-half net gain..... | 59 | 06 | 900 | 00 |
| January 22d. | | | | |
| Bot. of Sprague, Warner & Co., Chicago, @ 3 mos., Mdse., as per invoice..... | 3,750 | 00 | | |
| January 23d. | | | | |
| Sold H. Wilson & Co., Fargo, @ 60 days. 5 bbls. Sugar, 1,450 lbs.....@ 10½ | 152 | 25 | | |
| 2 bbls. Syrup, 87 gals.....@ 56 | 43 | 72 | | |
| 100 lbs. Tea.....@ 55 | 55 | 00 | | |
| Cartage..... | | 50 | 251 | 47 |
| January 24th. | | | | |
| Sold Fisher & Kellogg, City, 2 bbls. Sugar, 550 lbs@ 10½ | 57 | 75 | | |
| 1 bbl. Syrup, 44 gals.....@ 56 | 24 | 64 | 82 | 39 |
| January 25th. | | | | |
| Sold E. H. Taylor & Co., Stillwater, 100 lbs. Piper Heidsick Plug.....@ 42 | 42 | 00 | | |
| 2 m. G. M. Cigars.....@ 67.50 | 135 | 00 | | |
| 2 m. P. B. Cigars.....@ 35.00 | 70 | 00 | 247 | 00 |
| January 26th. | | | | |
| Sold H. Wilson & Co., Fargo, 1,000 lbs. Bacon@ 9½ | 95 | 00 | | |
| 2 bbls. Mess Pork.....@ 17.00 | 34 | 00 | | |
| Cartage..... | | 25 | 129 | 25 |
| January 28th. | | | | |
| Received account sales from A. Davidson & Co. of shipment of Apples and Potatoes, Our net proceeds..... | 697 | 50 | | |
| January 29th. | | | | |
| Sold W. H. Johnson & Co., Brainerd, 200 lbs. Rio Coffee.....@ 23 | 46 | 00 | | |
| 150 lbs. Tea.....@ 55 | 82 | 50 | | |
| 50 boxes Soap, 3,000 lbs.....@ 4 | 120 | 00 | | |
| 2 m. G. M. Cigars@ 67.50 | 135 | 00 | | |
| Cartage..... | | 50 | 384 | 00 |

January 30th.

| | | | | |
|--|-------|----|-----|----|
| Received of H. P. Upham & Co., their note @ 60 days, in settlement of account.... | 3,740 | 70 | | |
| Accepted A. Fink & Co.'s draft, 10 days' sight, to balance account.. | 1,509 | 07 | | |
| January 31st. | | | | |
| Sold Donaldson & Co., St. Cloud, | | | | |
| 50 cases Canned Peaches.....@ 6.50 | 325 | 00 | | |
| 25 cases Canned Apricots.....@ 7.00 | 175 | 00 | | |
| 25 cases Canned Plums.....@ 6.75 | 168 | 75 | 668 | 75 |
| Sold Durant & Co., Fergus Falls, for note @ 60 days, | | | | |
| 100 cases Canned Goods, asstd.....@ 6.50 | 650 | 00 | | |
| 5 bbls. Sugar, 1,460 lbs.....@ 10½ | 153 | 30 | | |
| 300 lbs. Coffee.....@ 24 | 72 | 00 | | |
| Cartage..... | | 50 | 875 | 80 |

| 1890. | DR. CASH. | MDSE. | SUNDRIES. | BALANCES. |
|--------|--|----------|-----------|-----------|
| Jan. 1 | To B. K. Marshall, Investment..... | | 25,000 00 | |
| | " B. S. Knowlton, Investment..... | | 25,000 00 | |
| | " First Natl. Bk., 225.00, 50.00, 75.00, 100.00... | | 450 00 | |
| 2 | " First Natl. Bank..... | | 375 00 | |
| | " Mdse., per Sales Book..... | 162 50 | | |
| 4 | " Mdse., per Sales Book..... | 257 25 | | |
| 5 | " First Natl. Bank..... | | 127 00 | |
| 7 | " Mdse., per Sales Book..... | 347 00 | | |
| 8 | " First Natl. Bank..... | | 4,568 26 | |
| | " Int. and Dis., P. N. & Co..... | | 397 24 | |
| | " Mdse., per Sales Book..... | 565 50 | | |
| 9 | " Bills Rec., B. S. & Co..... | | 5,261 90 | |
| | " Mdse., per Sales Book..... | 287 35 | | |
| 10 | " Mdse., per Sales Book..... | 145 60 | | |
| 11 | " First Natl. Bank, 62.50, 215.00..... | | 277 50 | |
| | " Mdse., per Sales Book..... | 375 80 | | |
| 12 | " Mdse., per Sales Book..... | 428 40 | | |
| 14 | " E. H. Taylor & Co..... | | 250 00 | |
| | " First Natl. Bank..... | | 3,482 20 | |
| | " Int. and Dis., McV. & Co..... | | 302 80 | |
| | " Mdse., per Sales Book..... | 248 25 | | |
| 15 | " First Natl. Bank..... | | 85 00 | |
| | " Mdse., per Sales Book..... | 135 00 | | |
| 16 | " Fisher & Kellogg..... | | 75 00 | |
| | " First Natl. Bank..... | | 175 00 | |
| | " Mdse., per Sales Book..... | 275 00 | | |
| 17 | " First Natl. Bank..... | | 1,162 50 | |
| | " Mdse., per Sales Book..... | 487 50 | | |
| 18 | " Int. and Dis., J. K. & Co..... | | 32 50 | |
| | " First Natl. Bank..... | | 368 75 | |
| | " Mdse., per Sales Book..... | 148 90 | | |
| 19 | " Mdse., per Sales Book..... | 243 00 | | |
| 21 | " W. H. Johnson & Co..... | | 300 00 | |
| | " Mdse., per Sales Book..... | 178 25 | | |
| 22 | " Mdse., per Sales Book..... | 290 35 | | |
| 23 | " Beaupre, Keogh & Co..... | | 575 00 | |
| 24 | " Mdse., per Sales Book..... | 540 00 | | |
| 25 | " A. Davidson & Co..... | | 1,278 75 | |
| | " Mdse., per Sales Book..... | 188 40 | | |
| 26 | " Allen, Moon & Co..... | | 700 00 | |
| 28 | " W. H. Johnson & Co..... | | 450 00 | |
| | " Mdse., per Sales Book..... | 296 50 | | |
| 29 | " Mdse., per Sales Book..... | 347 45 | | |
| 30 | " Int. and Dis., O. T. Co..... | | 287 50 | |
| | " First Natl. Bank..... | | 5,462 50 | |
| | " Mdse., per Sales Book..... | 235 00 | | |
| 31 | " Mdse., per Sales Book..... | 185 60 | | |
| | To Mdse. total for month..... | 6,368 60 | | |
| | To Sundries total for month..... | | 76,444 40 | |
| | Grand total..... | | | 82,813 00 |
| | | | | 82,813 00 |

| 1890. | | CR. CASH. | EXPENSES. | | SUNDRIES. | BALANCES. | |
|-------|----|---|-----------|----|-----------|-----------|-----------|
| Jan. | 2 | By First Natl. Bank, Deposit..... | | | 50,000 | 00 | |
| | | " Freight, 225.00, 50.00..... | | | 275 | 00 | |
| | | " Expense, Stationery..... | 75 | 00 | | | |
| | 3 | " Expense, Cartage 3.00, Stamps 2.50..... | 5 | 50 | | | |
| | | " Expense, Ins. on 50,000..... | 375 | 00 | | | |
| | 4 | " Freight..... | | | 52 | 50 | |
| | 5 | " Freight..... | | | 127 | 00 | |
| | | " Expense, Cartage 5 00, Sundries .75..... | 5 | 75 | | | |
| | 7 | " First Natl. Bank, Deposit..... | | | 750 | 00 | |
| | 8 | " Perry, Nichols & Co..... | | | 4,965 | 50 | |
| | 9 | " Freight..... | | | 165 | 00 | |
| | | " First Natl. Bank, Deposit..... | | | 5,188 | 24 | |
| | | " Int. and Dis., B. S. & Co..... | | | 73 | 66 | |
| | | " Expense, Cartage 3.00, Sundries 3.85..... | 6 | 85 | | | |
| | 10 | " First Natl. Bank, Deposit..... | | | 500 | 00 | |
| | 11 | " Freight..... | | | 62 | 50 | |
| | | " Mdse., 100 bbls. Apples..... | | | 215 | 00 | |
| | 12 | " Mdse. Co. A., Freight and Cartage..... | | | 50 | 00 | |
| | | " Expense, Sundries..... | 11 | 25 | | | |
| | 14 | " First Natl. Bank, Deposit..... | | | 1,050 | 00 | |
| | | " McVeigh & Co..... | | | 3,785 | 00 | |
| | 15 | " Expense, Pay Roll..... | 212 | 50 | | | |
| | | " Expense, Coal..... | 85 | 00 | | | |
| | 16 | " Int. and Dis., Interest on Mortgage..... | | | 175 | 00 | |
| | | " Expense, Sundries..... | 4 | 95 | | | |
| | | " First Natl. Bank, Deposit..... | | | 750 | 00 | |
| | 17 | " D. Henning & Co..... | | | 1,162 | 50 | |
| | | " Expense, Cartage, etc..... | 4 | 75 | | | |
| | | " Jas. Kirk & Co..... | | | 368 | 75 | |
| | | " Mdse., Sundries..... | | | 57 | 80 | |
| | | " Expense, Sundries..... | 12 | 80 | | | |
| | 19 | " First Natl. Bank, Deposit..... | | | 500 | 00 | |
| | 21 | " Expense, Sundries..... | 5 | 60 | | | |
| | 22 | " Freight..... | | | 45 | 60 | |
| | 23 | " First Natl. Bank, Deposit..... | | | 1,375 | 00 | |
| | 24 | " Expense, Sundries..... | 6 | 75 | | | |
| | 25 | " Int. and Dis., A. D. & Co..... | | | 5 | 81 | |
| | | " First Natl. Bank, Deposit..... | | | 1,778 | 75 | |
| | | " Expense, Sundries..... | 5 | 40 | | | |
| | 26 | " Storage and Advt..... | | | 25 | 00 | |
| | 28 | " First Natl. Bank, Deposit..... | | | 1,500 | 00 | |
| | 29 | " Expense, Sundries..... | 15 | 85 | | | |
| | 30 | " Oriental Tea Co..... | | | 5,750 | 00 | |
| | 31 | " First Natl. Bank, Deposit..... | | | 750 | 00 | |
| | | " Expense, Sundries..... | 11 | 40 | | | |
| | | " Expense, Pay Roll..... | 212 | 50 | | | |
| | | By Expense total for month..... | 1,056 | 85 | | | |
| | | By Sundries total for month..... | | | 81,503 | 61 | |
| | | Grand total..... | | | | | 82,560 46 |
| | | By Balance on hand..... | | | | | 252 54 |
| | | | | | | | 82,813 00 |

| Mdse. Sundries. | | | January 1st, 1890. | | Sundries. | | Mdse. | |
|-----------------|----|--------|--------------------|-----------------------------|-----------|----|--------|----|
| | | | | | | | | |
| | | 13,500 | 00 | Sundries Dr. to Sundries, | | | | |
| | | 1,500 | 00 | Real Estate. | | | | |
| | | | | Furniture and Fixtures, | | | | |
| | | | | Mortgage Payable..... | 10,000 | 00 | | |
| | | | | Bills Payable..... | 4,850 | 00 | | |
| | | | | Interest and Discount. | 150 | 00 | | |
| 18,965 | 50 | | | Mdse. Dr. to Sundries, | | | | |
| | | | | Perry, Nichols & Co.. | 4,965 | 50 | | |
| | | | | Bills Payable..... | 14,000 | 00 | | |
| | | | | 3d. | | | | |
| 5,775 | 00 | | | Mdse. Dr. to Sundries | | | | |
| | | | | C. A. Pillsbury & Co.. | 3,075 | 00 | | |
| | | | | Armour Packing Co... | 2,700 | 00 | | |
| | | | | 4th. | | | | |
| 7,937 | 50 | | | Mdse. Dr. to Sundries, | | | | |
| | | | | Bills Payable..... | 2,750 | 00 | | |
| | | | | N. Y. Refining Co.... | 5,187 | 50 | | |
| | | | | 5th. | | | | |
| | | 1,234 | 00 | A. H. Jones & Co., Dr. to | | | | |
| | | | | Mdse..... | | | 1,234 | 00 |
| | | | | 7th. | | | | |
| 1,550 | 00 | | | Mdse. Dr. to Sundries, | | | | |
| | | | | Jas. Kirk & Co..... | 650 | 00 | | |
| | | | | N. K. Fairbanks & Co. | 900 | 00 | | |
| | | 454 | 25 | H. Wilson & Co., Dr. to | | | | |
| | | | | Mdse..... | | | 454 | 25 |
| | | | | 8th. | | | | |
| 5,750 | 00 | | | Mdse. Dr. to | | | | |
| | | | | Oriental Tea Co..... | 5,750 | 00 | | |
| | | 991 | 75 | W. H. Johnson & Co., Dr. to | | | | |
| | | | | Mdse.... | | | 991 | 75 |
| | | | | 9th. | | | | |
| | | 5,261 | 90 | Sundries Dr. to Mdse., | | | 5,829 | 90 |
| | | 75 | 00 | Bills Receivable. | | | | |
| | | 493 | 00 | Fisher & Kellogg. | | | | |
| | | | | E. H. Taylor & Co. | | | | |
| | | | | 11th. | | | | |
| 3,785 | 00 | | | Mdse. Dr. to | | | | |
| | | | | McVeigh & Co..... | 3,785 | 00 | | |
| | | 6,250 | 00 | Sundries Dr. to Mdse., | | | 9,990 | 70 |
| | | 3,740 | 70 | First Nat. Bank Stock | | | | |
| | | | | H. P. Upham & Co. | | | | |
| | | | | 12th. | | | | |
| | | 725 | 00 | Mdse. Co. A Dr. to | | | | |
| | | | | A. Fink & Co..... | 725 | 00 | | |
| | | | | 14th. | | | | |
| 250 | 00 | | | Mdse. Dr. to | | | | |
| | | | | Jas. Wilson & Co..... | 250 | 00 | | |
| | | 281 | 25 | Jas. Kirk & Co., Dr. to | | | | |
| | | | | Mdse..... | | | 281 | 25 |
| | | | | 15th. | | | | |
| 1,162 | 50 | | | Mdse. Dr. to | | | | |
| | | | | D. Henning & Co..... | 1,162 | 50 | | |
| | | 581 | 25 | Sundries Dr. to Mdse., | | | 1,162 | 50 |
| | | 581 | 25 | Shipment to Memphis. | | | | |
| | | | | A. Davidson & Co. | | | | |
| 45,175 | 50 | 35,669 | 35 |Carried Forward..... | 60,900 | 50 | 19,944 | 35 |

| Mdse. | | Sundries. | | January 15th, 1890. | | Sundries. | | Mdse. | |
|--------|----|-----------|----|---|--|-----------|----|--------|----|
| 45,175 | 50 | 35,669 | 35 | <i>Brought Forward</i> | | 60,900 | 50 | 19,944 | 35 |
| | | 400 | 00 | P. H. Kelly & Co., Dr. to Mdse. Co. A..... | | 400 | 00 | | |
| | | | | 17th. | | | | | |
| | | 323 | 49 | Donaldson & Co., Dr. to Mdse..... | | | | 323 | 49 |
| | | | | 18th. | | | | | |
| | | 575 | 00 | Beaupre, Keogh & Co., Dr. to Mdse. Co. A... | | 575 | 00 | | |
| | | | | 19th. | | | | | |
| | | 700 | 00 | Allen, Moon & Co., Dr. to Mdse. Co. A... | | 700 | 00 | | |
| | | | | 21st. | | | | | |
| | | 900 | 00 | Mdse. Co. A. Dr. to Sundries, A. Fink & Co..... | | 784 | 07 | | |
| | | | | Storage and Advertising. | | 15 | 00 | | |
| | | | | Commission | | 41 | 87 | | |
| | | | | Profit and Loss..... | | 59 | 06 | | |
| | | | | 22d. | | | | | |
| 3,750 | 00 | | | Mdse. Dr. to Sprague, Warner & Co.. | | 3,750 | 00 | | |
| | | | | 23d. | | | | | |
| | | 251 | 47 | H. Wilson & Co., Dr. to Mdse..... | | | | 251 | 47 |
| | | | | 24th. | | | | | |
| | | 82 | 39 | Fisher & Kellogg, Dr. to Mdse | | | | 82 | 39 |
| | | | | 25th. | | | | | |
| | | 247 | 00 | E. H. Taylor & Co., Dr. to Mdse..... | | | | 247 | 00 |
| | | | | 26th. | | | | | |
| | | 129 | 25 | H. Wilson & Co., Dr. to Mdse..... | | | | 129 | 25 |
| | | | | 28th. | | | | | |
| | | 697 | 50 | A. Davidson & Co., Dr. to Shipment to Memphis... | | 697 | 50 | | |
| | | | | 29th. | | | | | |
| | | 384 | 00 | W. H. Johnson & Co., Dr. to Mdse..... | | | | 384 | 00 |
| | | | | 30th. | | | | | |
| | | 3,740 | 70 | Bills Receivable, Dr. to H. P. Upham & Co... | | 3,740 | 70 | | |
| | | | | 31st. | | | | | |
| | | 1,509 | 07 | A. Fink & Co., Dr. to Bills Payable..... | | 1,509 | 07 | | |
| | | | | Sundries Dr. to Mdse., Donaldson & Co. | | | | 1,544 | 55 |
| | | 668 | 75 | Bills Receivable. | | | | | |
| | | 875 | 80 | | | | | | |
| 48,925 | 50 | | | Mdse. Dr. for total purchases for mo. | | | | 22,906 | 50 |
| | | | | Mdse. Cr. for total sales for mo..... | | | | | |
| 48,925 | 50 | 47,153 | 77 | | | 73,172 | 77 | 22,906 | 50 |

B. K. Marshall.

| | | | | | | | | | | |
|--|--|--|--|--|--------------|---|-----------------------|---|--------|----|
| | | | | | 1890 Jan. | 1 | By Cash Investment... | 1 | 25,000 | 00 |
|--|--|--|--|--|--------------|---|-----------------------|---|--------|----|

B. S. Knowlton.

| | | | | | | | | | | |
|--|--|--|--|--|------|---|-----------------------|---|--------|----|
| | | | | | Jan. | 1 | By Cash Investment... | 1 | 25,000 | 00 |
|--|--|--|--|--|------|---|-----------------------|---|--------|----|

First National Bank.

| | | | | | | | | | |
|--------------|----|----------------------|--------|----|------|----|---------------------|-------|----|
| 1890 Jan. | 2 | To Cash Deposit..... | 50,000 | 00 | Jan. | 1 | By Cash Checks..... | 450 | 00 |
| | 7 | " Cash Deposit..... | 750 | 00 | | 2 | " Cash Checks..... | 375 | 00 |
| | 9 | " Cash Deposit..... | 5,188 | 24 | | 5 | " Cash Checks..... | 127 | 00 |
| | 10 | " Cash Deposit..... | 500 | 00 | | 8 | " Cash Checks..... | 4,568 | 26 |
| | 14 | " Cash Deposit..... | 1,050 | 00 | | 11 | " Cash Checks..... | 277 | 50 |
| | 16 | " Cash Deposit..... | 750 | 00 | | 14 | " Cash Checks..... | 3,482 | 20 |
| | 19 | " Cash Deposit..... | 500 | 00 | | 15 | " Cash Checks..... | 85 | 00 |
| | 23 | " Cash Deposit..... | 1,375 | 00 | | 16 | " Cash Checks..... | 175 | 00 |
| | 25 | " Cash Deposit..... | 1,778 | 75 | | 17 | " Cash Checks..... | 1,162 | 50 |
| | 28 | " Cash Deposit..... | 1,500 | 00 | | 18 | " Cash Checks..... | 368 | 75 |
| | 31 | " Cash Deposit..... | 750 | 00 | | 30 | " Cash Checks..... | 5,462 | 50 |

Merchandise.

| | | | | | | | | | |
|------|----|----------------------|--------|----|------|----|-------------------------|--------|----|
| Jan. | 11 | To Cash..... | 215 | 00 | Jan. | 31 | By Cash Sales for mo... | 6,368 | 60 |
| | 18 | " Cash..... | 57 | 80 | | 31 | " Sun.Cr. Sales for mo | 22,906 | 50 |
| | 31 | " Sundries for month | 48,925 | 50 | | | | | |

Cash.

| | | | | | | | | | |
|------|----|-----------------------|--------|----|------|----|-----------------------|--------|----|
| Jan. | 31 | To Receipts for month | 82,813 | 00 | Jan. | 31 | By Disb'ments for mo. | 82,560 | 46 |
|------|----|-----------------------|--------|----|------|----|-----------------------|--------|----|

Freight.

| | | | | | | | | | |
|------|----|--------------|-----|----|--|--|--|--|--|
| Jan. | 2 | To Cash..... | 275 | 00 | | | | | |
| | 4 | " Cash..... | 52 | 50 | | | | | |
| | 5 | " Cash..... | 127 | 00 | | | | | |
| | 9 | " Cash..... | 165 | 00 | | | | | |
| | 11 | " Cash..... | 62 | 50 | | | | | |
| | 22 | " Cash..... | 45 | 60 | | | | | |

Interest and Discount.

| | | | | | | | | | |
|------|----|--------------|-----|----|------|----|-----------------------|-----|----|
| 1890 | | | | | 1890 | | | | |
| Jan. | 9 | To Cash..... | 73 | 66 | Jan. | 1 | By Real Estate..... | 150 | 00 |
| | 16 | " Cash..... | 175 | 00 | | 8 | " Cash P. N. & Co.... | 397 | 24 |
| | 25 | " Cash..... | 5 | 81 | | 14 | " Cash McV. & Co.... | 302 | 80 |
| | | | | | | 18 | " Cash J. K. & Co.... | 32 | 50 |
| | | | | | | 30 | " Cash O. T. & Co.... | 287 | 50 |

Real Estate.

| | | | | | | | | | |
|------|---|------------------|--------|----|--|--|--|--|--|
| Jan. | 1 | To Sundries..... | 13,500 | 00 | | | | | |
|------|---|------------------|--------|----|--|--|--|--|--|

Furniture and Fixtures.

| | | | | | | | | | |
|------|---|------------------|-------|----|--|--|--|--|--|
| Jan. | 1 | To Sundries..... | 1,500 | 00 | | | | | |
|------|---|------------------|-------|----|--|--|--|--|--|

Mortgage Payable.

| | | | | | | | | | |
|--|--|--|--|--|------|---|---------------------|--------|----|
| | | | | | Jan. | 1 | By Real Estate..... | 10,000 | 00 |
|--|--|--|--|--|------|---|---------------------|--------|----|

Bills Payable.

| | | | | | | | | | |
|--|--|--|--|--|------|----|---------------------|--------|----|
| | | | | | Jan. | 1 | By Sundries..... | 4,850 | 00 |
| | | | | | | 1 | " Mdse..... | 14,000 | 00 |
| | | | | | | 4 | " Mdse..... | 2,750 | 00 |
| | | | | | | 30 | " A. Fink & Co..... | 1,509 | 07 |

Bills Receivable.

| | | | | | | | | | |
|------|----|------------------------|-------|----|------|---|--------------|-------|----|
| Jan. | 9 | To Mdse. B. S. & Co... | 5,261 | 90 | Jan. | 9 | By Cash..... | 5,261 | 90 |
| | 30 | " H. P. Upham & Co. | 3,740 | 70 | | | | | |
| | 31 | " Mdse..... | 875 | 80 | | | | | |

H. P. Upham & Co., City.

| | | | | | | | | | |
|------|----|--------------|-------|----|------|----|-------------------|-------|----|
| 1890 | | | | | 1890 | | | | |
| Jan. | 11 | To Mdse..... | 3,740 | 70 | Jan. | 30 | By Bills Rec..... | 3,740 | 70 |
| | | | | | | | | | |

Merchandise Co. A.

| | | | | | | | | | |
|------|----|----------------------|-------|----|------|----|-------------------------|-------|----|
| Jan. | 12 | To A. Fink & Co..... | 725 | 00 | Jan. | 16 | By P. H. Kelly & Co.... | 400 | 00 |
| | 12 | " Cash, Freight..... | 50 | 00 | | 18 | " Beaupre, K. & Co... | 575 | 00 |
| | 21 | " Sundries..... | 900 | 00 | | 19 | " Allen, Moon & Co.. | 700 | 00 |
| | | | 1,675 | 00 | | | | 1,675 | 00 |

A. Fink & Co., Chicago.

| | | | | | | | | | |
|------|----|-----------------------|-------|----|------|----|---------------------|-------|----|
| Jan. | 30 | To Bills Payable..... | 1,509 | 07 | Jan. | 12 | By Mdse. Co. A..... | 725 | 00 |
| | | | | | | 21 | " Mdse. Co. A..... | 784 | 07 |
| | | | 1,509 | 07 | | | | 1,509 | 07 |

James Wilson & Co., City.

| | | | | | | | | | |
|--|--|--|--|--|------|----|--------------|-----|----|
| | | | | | Jan. | 14 | By Mdse..... | 250 | 00 |
|--|--|--|--|--|------|----|--------------|-----|----|

D. Henning & Co., City.

| | | | | | | | | | |
|------|----|--------------|-------|----|------|----|--------------|-------|----|
| Jan. | 17 | To Cash..... | 1,162 | 50 | Jan. | 15 | By Mdse..... | 1,162 | 50 |
|------|----|--------------|-------|----|------|----|--------------|-------|----|

Shipment to Memphis.

| | | | | | | | | | |
|------|----|--------------|-----|----|------|----|-----------------------|-----|----|
| Jan. | 15 | To Mdse..... | 581 | 25 | Jan. | 28 | By A. Davidson & Co.. | 697 | 50 |
|------|----|--------------|-----|----|------|----|-----------------------|-----|----|

A. Davidson & Co., Memphis, Tenn.

| | | | | | | | | | |
|------|----|----------------------|-------|----|------|----|--------------|-------|----|
| Jan. | 15 | To Mdse..... | 581 | 25 | Jan. | 28 | By Cash..... | 1,278 | 75 |
| | | " Ship't. to Memphis | 697 | 50 | | | | 1,278 | 75 |
| | | | 1,278 | 75 | | | | | |

P. H. Kelly & Co., City.

| | | | | | | | | | | |
|--------------|----|---------------------|-----|----|--|--|--|--|--|--|
| 1890 Jan. | 15 | To Mdse. Co. A..... | 400 | 00 | | | | | | |
|--------------|----|---------------------|-----|----|--|--|--|--|--|--|

Donaldson & Co., St. Cloud.

| | | | | | | | | | | |
|------|----|--------------|-----|----|--|--|--|--|--|--|
| Jan. | 17 | To Mdse..... | 323 | 49 | | | | | | |
| | 31 | " Mdse..... | 668 | 75 | | | | | | |

Beaupre, Keogh & Co., City.

| | | | | | | | | | |
|------|----|---------------------|-----|----|--------------|----|--------------|-----|----|
| Jan. | 18 | To Mdse. Co. A..... | 575 | 00 | 1890 Jan. | 23 | By Cash..... | 575 | 00 |
|------|----|---------------------|-----|----|--------------|----|--------------|-----|----|

Allen, Moon & Co., City.

| | | | | | | | | | |
|------|----|---------------------|-----|----|------|----|--------------|-----|----|
| Jan. | 19 | To Mdse. Co. A..... | 700 | 00 | Jan. | 26 | By Cash..... | 700 | 00 |
|------|----|---------------------|-----|----|------|----|--------------|-----|----|

Storage and Advertising.

| | | | | | | | | | |
|------|----|--------------|----|----|------|----|---------------------|----|----|
| Jan. | 26 | To Cash..... | 25 | 00 | Jan. | 21 | By Mdse. Co. A..... | 15 | 00 |
|------|----|--------------|----|----|------|----|---------------------|----|----|

Commission.

| | | | | | | | | | |
|--|--|--|--|--|------|----|---------------------|----|----|
| | | | | | Jan. | 21 | By Mdse. Co. A..... | 41 | 87 |
|--|--|--|--|--|------|----|---------------------|----|----|

Profit and Loss.

| | | | | | | | | | |
|--|--|--|--|--|------|----|---------------------|----|----|
| | | | | | Jan. | 21 | By Mdse. Co. A..... | 59 | 06 |
|--|--|--|--|--|------|----|---------------------|----|----|

THE EXPERT'S ASSISTANT.

Sprague, Warner & Co., Chicago.

| | | | | | | | | |
|--|--|--|--|--|-----------------|---------------------|-------|----|
| | | | | | 1890 Jan. 22 | By Mdse. 3 mos..... | 3,750 | 00 |
|--|--|--|--|--|-----------------|---------------------|-------|----|

Expense.

| | | | | | | | | |
|-----------------|-------------------------|-------|----|--|--|--|--|--|
| 1890 Jan. 31 | To Cash, exp. for mo... | 1,056 | 85 | | | | | |
|-----------------|-------------------------|-------|----|--|--|--|--|--|

TRIAL BALANCE B. K. MARSHALL & CO., JAN. 31, 1890.

| NAMES. | L. F. | TOTALS. | | DIFFERENCES. | | | |
|----------------------------------|----------|----------|----------|--------------|---------|----------|----|
| | | Dr. | Cr. | | | | |
| B. K. Marshall..... | | | 25,000 | 00 | | 25,000 | 00 |
| B. S. Knowlton..... | | | 25,000 | 00 | | 25,000 | 00 |
| First National Bank..... | 64, 141 | 99 | 16, 533 | 71 | 47, 608 | 28 | |
| Merchandise..... | 49, 198 | 30 | 29, 275 | 10 | 19, 923 | 20 | |
| Cash..... | 82, 813 | 00 | 82, 560 | 46 | 252 | 54 | |
| Freight..... | 727 | 60 | | | 727 | 60 | |
| Interest and Discount..... | 254 | 47 | 1, 170 | 04 | | 915 | 57 |
| Real Estate..... | 13, 500 | 00 | | | 13, 500 | 00 | |
| Furniture and Fixtures..... | 1, 500 | 00 | | | 1, 500 | 00 | |
| Mortgage Payable..... | | | 10, 000 | 00 | | 10, 000 | 00 |
| Bills Payable..... | | | 23, 109 | 07 | | 23, 109 | 07 |
| Bills Receivable..... | 9, 878 | 40 | 5, 261 | 90 | 4, 616 | 50 | |
| C. A. Pillsbury & Co..... | | | 3, 075 | 00 | | 3, 075 | 00 |
| Armour Packing Co..... | | | 2, 700 | 00 | | 2, 700 | 00 |
| New York Refining Co..... | | | 5, 187 | 50 | | 5, 187 | 50 |
| A. H. Jones & Co..... | 1, 234 | 00 | | | 1, 234 | 00 | |
| N. K. Fairbanks & Co..... | | | 900 | 00 | | 900 | 00 |
| H. Wilson & Co..... | 834 | 97 | | | 834 | 97 | |
| W. H. Johnson & Co..... | 1, 375 | 75 | 750 | 00 | 625 | 75 | |
| Fisher & Kellogg..... | 157 | 39 | 75 | 00 | 82 | 39 | |
| E. H. Taylor & Co..... | 740 | 00 | 250 | 00 | 490 | 00 | |
| First National Bank Stock..... | 6, 250 | 00 | | | 6, 250 | 00 | |
| Jas. Wilson & Co..... | | | 250 | 00 | | 250 | 00 |
| Shipment to Memphis..... | 581 | 25 | 697 | 50 | | 116 | 25 |
| P. H. Kelly & Co..... | 400 | 00 | | | 400 | 00 | |
| Donaldson & Co..... | 992 | 24 | | | 992 | 24 | |
| Storage and Advertising..... | 25 | 00 | 15 | 00 | 10 | 00 | |
| Commission..... | | | 41 | 87 | | 41 | 87 |
| Profit and Loss..... | | | 59 | 06 | | 59 | 06 |
| Sprague, Warner & Co..... | | | 3, 750 | 00 | | 3, 750 | 00 |
| Expense..... | 1, 056 | 85 | | | 1, 056 | 85 | |
| | | 235, 661 | 21 | 235, 661 | 21 | 100, 104 | 32 |
| | | | | | | | |
| Accts. Baled. | | | | | | | |
| 4, 965.50 | | | | | | | |
| 650.00 | | | | | | | |
| 5, 750.00 | | | | | | | |
| 3, 785.00 | | | | | | | |
| 3, 740.70 | | | | | | | |
| 1, 675.00 | | | | | | | |
| 1, 509.07 | | | | | | | |
| 1, 162.50 | | | | | | | |
| 1, 278.75 | | | | | | | |
| 575.00 | | | | | | | |
| 700.00 | | | | | | | |
| 25, 791 52 | | | | | | | |
| Proof by Totals. | | Dr. | | Cr. | | | |
| Posted to Cash Acct..... | 82, 813 | 00 | 82, 560 | 46 | | | |
| Posted from Cash to all Accts... | 82, 560 | 46 | 82, 813 | 00 | | | |
| Posted from Journal to Mdse.... | 48, 925 | 50 | 22, 906 | 50 | | | |
| Posted from Journal to Sundry | | | | | | | |
| Accts..... | 47, 153 | 77 | 73, 172 | 77 | | | |
| Less Accts. Balanced during | 261, 452 | 73 | 261, 452 | 73 | | | |
| month..... | 25, 791 | 52 | 25, 791 | 52 | | | |
| Trial Balance should foot..... | 235, 661 | 21 | 235, 661 | 21 | | | |

PROOF OF TRIAL BALANCE BY DIFFERENCES, JAN. 31, 1890.

| DEBIT SIDE. | INCREASE. | | DECREASE. | | CREDIT SIDE. | INCREASE. | | DECREASE. | |
|---------------------------|-----------|----|-----------|----|----------------------------|-----------|----|-----------|----|
| | | | | | | | | | |
| Previous Balance..... | 00,000 | 00 | | | Previous Balance..... | 00,000 | 00 | | |
| Mdse. Cr. Purch., mo.... | 48,925 | 50 | | | B. K. Marshall..... | 25,000 | 00 | | |
| Mdse. Cash Purch., mo.... | 272 | 80 | | | B. S. Knowlton..... | 25,000 | 00 | | |
| Expense Account..... | 1,056 | 85 | | | Mdse. Cr. Purch., mo.... | 48,925 | 50 | | |
| Cash Balance..... | 252 | 54 | | | Mortgage Payable..... | 10,000 | 00 | | |
| Bank Balance..... | 47,608 | 28 | | | Bills Pay'ble ac. R'l Est. | 4,850 | 00 | | |
| Freight Account..... | 727 | 60 | | | Bills Payable ac. Mdse. | | | | |
| Real Estate..... | 13,500 | 00 | | | Co. A..... | 1,509 | 07 | | |
| Furniture and Fixtur's | 1,500 | 00 | | | Interest and Dis. Bal.. | 915 | 57 | | |
| Storage and Adv. Bal.. | 10 | 00 | | | Shipm't to Memphis | | | | |
| | | | | | ac. Profit..... | 116 | 25 | | |
| Total Increase..... | 113,853 | 57 | | | Commission..... | 41 | 87 | | |
| Mdse. Cash Sales..... | | | 6,368 | 60 | Profit and Loss..... | 59 | 06 | | |
| Mdse. Cr. Sales, Kirk | | | | | | | | | |
| & Co..... | | | 281 | 25 | Total Increase..... | 116,417 | 32 | | |
| Mdse. Ship. to M'ph's | | | 697 | 50 | Cash pay'ts ac. Mdse. | | | 4,965 | 50 |
| Mdse. Co. A, Frt. & Stor. | | | 65 | 00 | P. N. & Co..... | | | | |
| Cash Received on Ac.. | | | 1,075 | 00 | Cash pay'ts ac. Mdse. | | | 5,750 | 00 |
| Cash Rec'd on Bills Rec | | | 5,261 | 90 | O. T. Co..... | | | | |
| | | | | | Cash pay'ts ac. Mdse. | | | 3,785 | 00 |
| | | | | | McV. & Co..... | | | | |
| | | | | | Cash pay'ts ac. Mdse. | | | 1,162 | 50 |
| | | | | | H. & Co..... | | | | |
| | | | | | Cash pay'ts ac. Mdse. | | | 368 | 75 |
| | | | | | J. K. & Co..... | | | | |
| | | | | | Mdse. pay'ts ac. J. K. | | | 281 | 25 |
| | | | | | & Co..... | | | | |
| Total to be deducted... | 13,749 | 25 | 13,749 | 25 | Total to be deducted.. | 16,313 | 00 | 16,313 | 00 |
| Trial Bal. should foot.. | 100,104 | 32 | | | Trial Bal. should foot | 100,104 | 32 | | |

In this illustration, as it is the commencement of the business, we have no previous trial balance to take into account.

The debit side of the trial balance will be increased by the credit and cash purchases of merchandise, as, the balance of that account being on the debit side, they represent that much of an asset; it will be increased by the balance in bank and cash on hand, as they also represent a part of the assets; by the cost of real estate and furniture and fixtures, for the same reason, and by the net amount charged to Expense, Freight and Storage and Advertising, as they represent an apparent asset until closed by Profit and Loss.

The debit side will be decreased by the cash sales of merchandise and by credit sales of the same to persons having a credit balance, as it is an exchange of one form of asset for another, which has been accounted for in the Cash and Merchandise accounts; by the receipts on Bills Receivable and accounts showing a debit balance, as they decrease the assets, and by the amounts credited to shipments of merchandise on joint account, as they represent an apparent reduction of assets; also, by the cash payments for freight and charges for storage and advertising on property received on joint account, where those accounts (*i. e.*, Storage and Advertising) show a debit balance, as they also diminish the apparent assets.

The credit side will be increased by the investment in the business, as it is a liability of the business; by the credit purchases of merchandise, as they represent the amount of liability incurred for the same; by the Mortgages and Bills Payable given for the purchase of property, other than merchandise, as they are not shown in the credit purchases of merchandise and constitute a liability; by the net amount to the credit of shipments on joint account, as they represent an apparent liability until closed by Profit and Loss, and by the net amount to the credit of Interest and Discount, Commission and Profit and Loss, as they are apparent liabilities.

The credit side will be decreased by all payments, either in cash or merchandise, on Bills Payable and accounts showing a credit balance, as they diminish the apparent liabilities.

The proof in the accompanying illustrations has been made more in detail than is necessary, in order that it may be more readily understood.

MERCANTILE BOOKS:—CONTINUED.

DAY BOOK, CASH BOOK, JOURNAL AND LEDGER.

TRIAL BALANCE BY TOTALS AND DIFFERENCES.

PROOFS BY TOTALS AND DIFFERENCES.

February 1st, 1890.

| | | | | |
|--|-------|----|-------|----|
| Sold Fisher & Kellogg, City, 100 cases Canned Goods, asstd.....@ 6.75 | 675 | 00 | | |
| 50 lbs. Climax Plug.....@ 40 | 20 | 00 | | |
| 1 m. Key West Cigars..... | 50 | 00 | 745 | 00 |
| 2d. | | | | |
| Sold A. H. Jones & Co., Denver, Col., 25 cases Champagne Piper Heidsick, pts.....@ 26.50 | 662 | 50 | | |
| 25 cases Champagne Piper Heidsick, qts.....@ 24.50 | 612 | 50 | 1,275 | 00 |
| 4th. | | | | |
| Sold H. Wilson & Co., Fargo, Dak., 5 bbls. Sugar, 1,475 lbs.....@ 10 | 147 | 50 | | |
| 2 bbls. Syrup, 92 gals.....@ 55 | 50 | 60 | | |
| 250 lbs. Rio Coffee.....@ 25 | 62 | 50 | | |
| 100 lbs. Java Coffee.....@ 28 | 28 | 00 | | |
| 200 lbs. Y. H. Tea.....@ 50 | 100 | 00 | | |
| Cartage..... | 50 | | 389 | 20 |
| 5th. | | | | |
| Sold E. H. Taylor & Co., Stillwater, 10 bbls. Mess Pork.....@ 15.20 | 152 | 00 | | |
| 1,250 lbs. Bacon.....@ 10 | 125 | 00 | | |
| 50 cases Canned Goods, asstd.....@ 6.75 | 337 | 50 | | |
| Cartage..... | 50 | | 615 | 00 |
| 6th. | | | | |
| Sold P. H. Kelly & Co., City, 25 bbls. Mess Pork.....@ 15.10 | 377 | 50 | | |
| 5,000 lbs. Bacon Sides.....@ 9 | 450 | 00 | 827 | 50 |
| 7th. | | | | |
| Sold Donaldson & Co., St. Cloud, 100 lbs. Climax Plug.....@ 50 | 50 | 00 | | |
| 100 lbs. P. H. Plug.....@ 55 | 55 | 00 | | |
| 2 m. Key West Cigars.....@ 50.00 | 100 | 00 | | |
| 1 m. G. M. Cigars..... | 35 | 00 | 240 | 00 |
| 8th. | | | | |
| Bot. of Sprague, Warner & Co., Mdse., as per invoice..... | 1,825 | 00 | | |
| 9th. | | | | |
| Sold W. H. Johnson & Co., Brainerd, 10 bbls. Sugar, 3,150 lbs.....@ 10 | 315 | 00 | | |
| 5 bbls. Syrup, 210 gals.....@ 55 | 115 | 50 | | |
| Cartage..... | 50 | | 431 | 00 |
| 11th. | | | | |
| Sold H. P. Upham & Co., for their note @ 60 days, 10 m. Key West Cigars.....@ 47.50 | 475 | 00 | | |
| 10 m. G. M. Cigars.....@ 34.00 | 340 | 00 | 815 | 00 |

February 12th, 1890.

| | | | | |
|---|-------|----|-------|----|
| Sold Fisher & Kellogg, 20 boxes Soap, 1,200 lbs@ 4 | 48 | 00 | | |
| 500 lbs. Lard.....@ 10 | 50 | 00 | | |
| 1,000 lbs. Bacon.....@ 10 | 100 | 00 | | |
| 250 lbs. Java Coffee.....@ 28 | 70 | 00 | | |
| 150 lbs. Rio Coffee.....@ 25 | 37 | 50 | 305 | 50 |
| 13th. | | | | |
| Sold P. H. Kelly & Co., 250 cases Canned Goods, asstd.....@ 6.25 | 1,562 | 50 | | |
| 14th. | | | | |
| Sold Allen, Moon & Co., for their note @ 30 days, 10 m. H. C. Conchas, imported...@ 75.00 | 750 | 00 | | |
| 15th. | | | | |
| Sold Donaldson & Co., St. Cloud, 50 cases Canned Goods, asstd.....@ 6.75 | 337 | 50 | | |
| 50 boxes Soap, 3,000 lbs@ 4 | 120 | 00 | | |
| 1,000 lbs. Lard@ 10 | 100 | 00 | | |
| 5 bbls. Coal Oil, 225 gals.....@ 11 | 24 | 75 | | |
| Cartage..... | | 50 | 581 | 75 |
| 16th. | | | | |
| Sold E. H. Taylor & Co., Stillwater, 5 m. Key West Cigars.....@ 50.00 | 250 | 00 | | |
| 5 m. G. M. Cigars.....@ 34.00 | 170 | 00 | | |
| 5 bbls. Sugar, 1,625 lbs.....@ 10 | 162 | 50 | | |
| 5 bbls. Syrup, 125 gals.....@ 55 | 68 | 75 | | |
| Cartage..... | | 50 | 651 | 75 |
| 18th. | | | | |
| Sold Jas. Walker & Co., for their note @ 60 days, 1,000 lbs. Climax Plug.....@ 45 | 450 | 00 | | |
| 500 lbs. P. H. Plug@ 50 | 250 | 00 | | |
| 5 m. H. C. Conchas, imported.....@ 75.00 | 375 | 00 | 1,075 | 00 |
| 19th. | | | | |
| Sold H. Wilson & Co., 1,000 lbs. Bacon.....@ 10 | 100 | 00 | | |
| 1,000 lbs. Lard@ 10 | 100 | 00 | | |
| 50 boxes Soap, 3,000 lbs@ 4 | 120 | 00 | | |
| 10 bbls. Coal Oil, 445 gals.....@ 11 | 48 | 95 | | |
| 10 bbls. Mess Pork.....@ 15.40 | 154 | 00 | | |
| Cartage..... | 1 | 00 | 523 | 95 |

February 20th, 1890.

| | | | | |
|--|-------|----|-----|----|
| Sold P. H. Kelly & Co., 10m. H.C.R.V.Cigars, imported. @ 125.00 | 1,250 | 00 | | |
| 21st. | | | | |
| Sold W. H. Johnson & Co., Brainerd, | | | | |
| 500 lbs. Java Coffee.....@ 28 | 140 | 00 | | |
| 500 lbs. Rio Coffee.....@ 25 | 125 | 00 | | |
| 250 lbs. Y. H. Tea.....@ 50 | 125 | 00 | | |
| 5 m. G. M. Cigars.....@ 35.00 | 175 | 00 | | |
| Cartage..... | 50 | | 565 | 50 |
| 22d. | | | | |
| Sold Donaldson & Co., St. Cloud, | | | | |
| 5 bbls. Mess Pork.....@ 15.45 | 77 | 25 | | |
| 1,500 lbs. Bacon.....@ 10 | 150 | 00 | | |
| 2,000 lbs. Lard.....@ 10 | 200 | 00 | | |
| 100 boxes Soap, 6,000 lbs.....@ 4 | 240 | 00 | | |
| Cartage..... | 1 | 50 | 668 | 75 |
| 23d. | | | | |
| Sold H. Wilson & Co., | | | | |
| 5 m. G. M. Cigars.....@ 35 00 | 175 | 00 | | |
| 5 m. Punch Cigars.....@ 25 00 | 125 | 00 | | |
| 100 lbs. Climax Plug.....@ 48 | 48 | 00 | 348 | 00 |
| 25th. | | | | |
| Bot. for note @ 60 days, of Perry, Nichols & Co., | | | | |
| Mdse., as per invoice..... | 2,560 | 25 | | |
| 26th. | | | | |
| Sold P. H. Kelly & Co., | | | | |
| 150 cases Canned Goods, asstd.....@ 6.50 | 975 | 00 | | |
| 27th. | | | | |
| Sold H. Wilson & Co., | | | | |
| 100 lbs. Tea.....@ 48 | 480 | 00 | | |
| 500 lbs. Rio Coffee.....@ 24 | 120 | 00 | | |
| Cartage..... | 25 | | 600 | 25 |
| 28th. | | | | |
| Sold P. H. Kelly & Co., | | | | |
| 5 m. H. C. Concha Cigars, imptd....@ 75.00 | 375 | 00 | | |
| 5 m. Key West Cigars.....@ 48.00 | 240 | 00 | 615 | 00 |

| 1890. | | DR. CASH. | MDSE. | | SUNDRIES. | BALANCES. | |
|-------|----|--|---------|----|------------|------------|----|
| Feb. | 1 | To Balance on hand..... | | | | 252 | 54 |
| | | " First National Bank..... | | | 3, 075 00 | | |
| | | " Mdse., per Sales Book..... | 565 | 80 | | | |
| | 2 | " First National Bank..... | | | 2, 700 00 | | |
| | | " Mdse., per Sales Book..... | 495 | 00 | | | |
| | 4 | " H. Wilson & Co..... | | | 250 00 | | |
| | | " First National Bank..... | | | 50 00 | | |
| | | " Mdse., per Sales Book..... | 675 | 25 | | | |
| | 5 | " P. H. Kelly & Co..... | | | 400 00 | | |
| | | " Mdse., per Sales Book..... | 434 | 60 | | | |
| | 6 | " First National Bank Stock Dividend. | | | 250 00 | | |
| | | " Mdse., per Sales Book..... | 656 | 25 | | | |
| | 7 | " Donaldson & Co..... | | | 500 00 | | |
| | | " First National Bank..... | | | 250 00 | | |
| | | " Mdse., per Sales Book..... | 346 | 15 | | | |
| | 8 | " First National Bank..... | | | 2, 200 00 | | |
| | | " Mdse., per Sales Book..... | 845 | 00 | | | |
| | 9 | " First National Bank..... | | | 1, 509 07 | | |
| | | " Mdse., per Sales Book..... | 465 | 20 | | | |
| | 11 | " First National Bank..... | | | 900 00 | | |
| | | " Mdse., per Sales Book..... | 324 | 85 | | | |
| | 12 | " Fisher & Kellogg..... | | | 82 39 | | |
| | | " Mdse., per Sales Book..... | 275 | 80 | | | |
| | 13 | " First National Bank..... | | | 2, 667 50 | | |
| | | " Interest and Discount P. L. & C..... | | | 82 50 | | |
| | | " Mdse., per Sales Book..... | 540 | 20 | | | |
| | 14 | " Mdse., per Sales Book..... | 734 | 25 | | | |
| | 15 | " Donaldson & Co..... | | | 350 00 | | |
| | | " Mdse., per Sales Book..... | 675 | 00 | | | |
| | 16 | " E. H. Taylor & Co..... | | | 500 00 | | |
| | | " Mdse., per Sales Book..... | 564 | 00 | | | |
| | 18 | " H. Wilson & Co..... | | | 600 00 | | |
| | | " Mdse., per Sales Book..... | 445 | 25 | | | |
| | 19 | " W. H. Johnson & Co..... | | | 550 00 | | |
| | | " Mdse., per Sales Book..... | 367 | 50 | | | |
| | 20 | " Mdse., per Sales Book..... | 645 | 00 | | | |
| | 21 | " Mdse., per Sales Book..... | 525 | 30 | | | |
| | 22 | " A. H. Jones & Co..... | | | 1, 000 00 | | |
| | | " Mdse., per Sales Book..... | 742 | 25 | | | |
| | 23 | " First National Bank..... | | | 14, 000 00 | | |
| | 25 | " Donaldson & Co..... | | | 350 00 | | |
| | | " Mdse., per Sales Book..... | 427 | 35 | | | |
| | 26 | " First National Bank..... | | | 3, 750 00 | | |
| | | " Mdse., per Sales Book..... | 648 | 20 | | | |
| | 27 | " P. H. Kelly & Co..... | | | 827 50 | | |
| | | " Mdse., per Sales Book..... | 546 | 35 | | | |
| | 28 | " H. Wilson & Co..... | | | 525 00 | | |
| | | " Mdse., per Sales Book..... | 872 | 20 | | | |
| | | To Mdse. total for month..... | 12, 816 | 75 | | | |
| | | To Sundries for month..... | | | 37, 368 96 | | |
| | | To Cash grand total..... | | | | 50, 185 71 | |
| | | | | | | 50, 438 25 | |
| Mch. | 1 | To Balance on hand..... | | | | 163 | 94 |

| 1890. | | CR. CASH. | EXPENSES. | | SUNDRIES. | BALANCES. | |
|-------|----|--|-----------|----|-----------|-----------|-----------|
| Feb. | 1 | By C. A. Pillsbury & Co..... | | | 3,075 | 00 | |
| | | " Expense, Sundries..... | 8 | 90 | | | |
| | 2 | " Armour Packing Co..... | | | 2,700 | 00 | |
| | 4 | " Expense, Gas 50.00, Sundries 4.85..... | 54 | 85 | | | |
| | | " First National Bank, Deposit..... | | | 1,750 | 00 | |
| | 5 | " First National Bank, Deposit..... | | | 800 | 00 | |
| | | " Expense, Sundries..... | 12 | 65 | | | |
| | 6 | " First National Bank, Deposit..... | | | 1,250 | 00 | |
| | | " Expense, Sundries..... | 5 | 10 | | | |
| | 7 | " Jas. Wilson & Co..... | | | 250 | 00 | |
| | | " First National Bank, Deposit..... | | | 500 | 00 | |
| | | " Expense, Sundries..... | 6 | 75 | | | |
| | 8 | " Mortgage Payable..... | | | 2,000 | 00 | |
| | | " Interest and Discount on Mortgage... | | | 200 | 00 | |
| | 9 | " Bills Payable, Fink & Co..... | | | 1,509 | 07 | |
| | | " First National Bank, Deposit..... | | | 800 | 00 | |
| | | " Expense, Sundries..... | 14 | 50 | | | |
| | 11 | " N. K. Fairbanks & Co..... | | | 900 | 00 | |
| | | " Expense, Sundries..... | 8 | 60 | | | |
| | | " Freight..... | | | 18 | 50 | |
| | 12 | " First National Bank, Deposit..... | | | 782 | 39 | |
| | | " Expense, Sundries..... | 13 | 25 | | | |
| | 13 | " Bills Payable, P. L. & Co..... | | | 2,750 | 00 | |
| | | " Expense, Sundries..... | 3 | 40 | | | |
| | 14 | " Expense, Pay Roll..... | 212 | 50 | | | |
| | | " Expense, Sundries..... | 4 | 25 | | | |
| | 15 | " Mdse., per Invoice..... | | | 795 | 50 | |
| | | " Expense, Sundries..... | 3 | 65 | | | |
| | 16 | " First National Bank, Deposit..... | | | 2,000 | 00 | |
| | | " Expense, Sundries..... | 4 | 45 | | | |
| | 18 | " First National Bank, Deposit..... | | | 1,600 | 00 | |
| | | " Expense, Sundries..... | 3 | 20 | | | |
| | 19 | " Expense, Sundries..... | 9 | 40 | | | |
| | 20 | " Mdse., per Invoice..... | | | 625 | 00 | |
| | 21 | " Expense, Sundries..... | 6 | 85 | | | |
| | 22 | " First National Bank, Deposit..... | | | 3,100 | 00 | |
| | 23 | " Bills Payable, Eureka Packing Co..... | | | 14,000 | 00 | |
| | | " Expense, Sundries..... | 12 | 80 | | | |
| | 25 | " Expense, Sundries..... | 6 | 25 | | | |
| | 26 | " Sprague, Warner & Co..... | | | 3,750 | 00 | |
| | 27 | " Expense, Sundries..... | 5 | 60 | | | |
| | 28 | " Expense, Sundries..... | 9 | 40 | | | |
| | | " Expense, Pay Roll..... | 212 | 50 | | | |
| | | " First National Bank, Deposit..... | | | 4,500 | 00 | |
| | | By Expense total for month..... | 618 | 85 | | | |
| | | By Sundries total for month..... | | | 49,655 | 46 | |
| | | By Cash grand total..... | | | | | 50,274 31 |
| | | By Balance on hand..... | | | | | 163 94 |
| | | | | | | | 50,438 25 |

| Mdse. | | Sundries. | | February 1st, 1890. | | Sundries. | | Mdse. | |
|-------|----|-----------|----|-----------------------------|--|-----------|----|--------|----|
| | | 745 | 00 | Fisher & Kellogg, Dr. to | | | | 745 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 2d. | | | | | |
| | | 1,275 | 00 | A. H. Jones & Co., Dr. to | | | | 1,275 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 4th. | | | | | |
| | | 389 | 20 | H. Wilson & Co., Dr. to | | | | 389 | 20 |
| | | | | Mdse..... | | | | | |
| | | | | 5th. | | | | | |
| | | 615 | 00 | E. H. Taylor & Co., Dr. to | | | | 615 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 6th. | | | | | |
| | | 827 | 50 | P. H. Kelly & Co., Dr. to | | | | 827 | 50 |
| | | | | Mdse..... | | | | | |
| | | | | 7th. | | | | | |
| | | 240 | 00 | Donaldson & Co., Dr. to | | | | 240 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 8th. | | | | | |
| 1,825 | 00 | | | Mdse. Dr. to | | 1,825 | 00 | | |
| | | | | Sprague, Warner & Co... | | | | | |
| | | | | 9th. | | | | | |
| | | 431 | 00 | W. H. Johnson & Co., Dr. to | | | | 431 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 11th. | | | | | |
| | | 815 | 00 | Bills Receivable, Dr. to | | | | 815 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 12th. | | | | | |
| | | 305 | 50 | Fisher & Kellogg, Dr. to | | | | 305 | 50 |
| | | | | Mdse..... | | | | | |
| | | | | 13th. | | | | | |
| | | 1,562 | 50 | P. H. Kelly & Co., Dr. to | | | | 1,562 | 50 |
| | | | | Mdse..... | | | | | |
| | | | | 14th. | | | | | |
| | | 750 | 00 | Bills Receivable, Dr. to | | | | 750 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 15th. | | | | | |
| | | 581 | 75 | Donaldson & Co., Dr. to | | | | 581 | 75 |
| | | | | Mdse..... | | | | | |
| | | | | 16th. | | | | | |
| | | 651 | 75 | E. H. Taylor & Co., Dr. to | | | | 651 | 75 |
| | | | | Mdse..... | | | | | |
| | | | | 18th. | | | | | |
| | | 1,075 | 00 | Bills Receivable, Dr. to | | | | 1,075 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 19th. | | | | | |
| | | 523 | 95 | H. Wilson & Co., Dr. to | | | | 523 | 95 |
| | | | | Mdse..... | | | | | |
| | | | | 21st. | | | | | |
| | | 565 | 50 | W. H. Johnson & Co., Dr. to | | | | 565 | 50 |
| | | | | Mdse..... | | | | | |
| | | | | 22d. | | | | | |
| | | 668 | 75 | Donaldson & Co., Dr. to | | | | 668 | 75 |
| | | | | Mdse..... | | | | | |
| 1,825 | 00 | 12,022 | 40 |Carried Forward..... | | 1,825 | 00 | 12,022 | 40 |

| Mdse. | | Sundries. | | February 23d, 1890. | | | | Sundries. | | Mdse. | |
|-------|----|-----------|----|---------------------------------------|--|--|--|-----------|----|--------|----|
| 1,825 | 00 | 12,022 | 40 | <i>Brought Forward</i> | | | | 1,825 | 00 | 12,022 | 40 |
| | | 348 | 00 | H. Wilson & Co., Dr. to Mdse..... | | | | | | 348 | 00 |
| | | | | 25th. | | | | | | | |
| 2,560 | 25 | | | Mdse., Dr. to Bills Payable..... | | | | 2,560 | 25 | | |
| | | | | 26th. | | | | | | | |
| | | 975 | 00 | P. H. Kelly & Co., Dr. to Mdse..... | | | | | | 975 | 00 |
| | | | | 27th. | | | | | | | |
| | | 600 | 25 | H. Wilson & Co., Dr. to Mdse..... | | | | | | 600 | 25 |
| | | | | 28th. | | | | | | | |
| | | 615 | 00 | P. H. Kelly & Co., Dr. to Mdse..... | | | | | | 615 | 00 |
| 4,385 | 25 | | | Mdse. Dr. for total purchases for mo. | | | | | | 14,560 | 65 |
| | | | | Mdse. Cr. for total sales for mo..... | | | | | | | |
| 4,385 | 25 | 14,560 | 65 | | | | | 4,385 | 25 | 14,560 | 65 |

THE EXPERT'S ASSISTANT.

B. K. Marshall.

| | | | | | | | | | | |
|--|--|--|--|--|--------------|---|--------------------|-------|--------|----|
| | | | | | 1890 Feb. | 1 | By Brot. from..... | L. A. | 25,000 | 00 |
|--|--|--|--|--|--------------|---|--------------------|-------|--------|----|

B. S. Knowlton.

| | | | | | | | | | | |
|--|--|--|--|--|------|---|--------------------|-------|--------|----|
| | | | | | Feb. | 1 | By Brot. from..... | L. A. | 25,000 | 00 |
|--|--|--|--|--|------|---|--------------------|-------|--------|----|

First National Bank.

| | | | | | | | | | | | |
|--------------|----|--------------------|-------|--------|----|------|----|--------------------|-------|--------|----|
| 1890 Feb. | 1 | To Brot. from..... | L. A. | 64,141 | 99 | Feb. | 1 | By Brot. from..... | L. A. | 16,533 | 71 |
| | 4 | " Cash Deposit... | | 1,750 | 00 | | 1 | " Cash Checks..... | | 3,075 | 00 |
| | 5 | " Cash Deposit... | | 800 | 00 | | 2 | " Cash Checks..... | | 2,700 | 00 |
| | 6 | " Cash Deposit... | | 1,250 | 00 | | 4 | " Cash Checks..... | | 50 | 00 |
| | 7 | " Cash Deposit... | | 500 | 00 | | 7 | " Cash Checks..... | | 250 | 00 |
| | 9 | " Cash Deposit... | | 800 | 00 | | 8 | " Cash Checks..... | | 2,200 | 00 |
| | 12 | " Cash Deposit... | | 782 | 39 | | 9 | " Cash Checks..... | | 1,509 | 07 |
| | 16 | " Cash Deposit... | | 2,000 | 00 | | 11 | " Cash Checks..... | | 900 | 00 |
| | 18 | " Cash Deposit... | | 1,600 | 00 | | 13 | " Cash Checks..... | | 2,667 | 50 |
| | 22 | " Cash Deposit... | | 3,100 | 00 | | 23 | " Cash Checks..... | | 14,000 | 00 |
| | 28 | " Cash Deposit... | | 4,500 | 00 | | 26 | " Cash Checks..... | | 3,750 | 00 |

Merchandise.

| | | | | | | | | | | | |
|------|----|--------------------|-------|--------|----|------|----|--------------------|-------|--------|----|
| Feb. | 1 | To Brot. from..... | L. A. | 49,198 | 30 | Feb. | 1 | By Brot. from..... | L. A. | 29,275 | 10 |
| | 15 | " Cash..... | | 795 | 50 | | 28 | " Cash S'ls for mo | | 12,816 | 75 |
| | 20 | " Cash..... | | 625 | 00 | | 28 | " Sundries Sales | | | |
| | 28 | " Sundries..... | | 4,385 | 25 | | | for mo..... | | 14,560 | 65 |

Cash.

| | | | | | | | | | | | |
|------|----|--------------------|-------|--------|----|------|----|--------------------|-------|--------|----|
| Feb. | 1 | To Brot. from..... | L. A. | 82,813 | 00 | Feb. | 1 | By Brot. from..... | L. A. | 82,560 | 46 |
| | 28 | " Receipts for mo | | 50,185 | 71 | | 28 | " Disb'mts for mo | | 50,274 | 31 |

Freight.

| | | | | | | | | | | | |
|------|----|--------------------|-------|-----|----|--|--|--|--|--|--|
| Feb. | 1 | To Brot. from..... | L. A. | 727 | 60 | | | | | | |
| | 11 | " Cash..... | | 18 | 50 | | | | | | |

Interest and Discount.

| | | | | | | | | | | | | |
|--------------|--------|--------------------|-------|-----|----|----|--------------|---------|--------------------|-------|-------|----|
| 1890 Feb. | 1 8 | To Brot. from..... | L. A. | 254 | 47 | 00 | 1890 Feb. | 1 13 | By Brot. from..... | L. A. | 1,170 | 04 |
| | | " Cash | | 200 | | | | | " Cash P. L. & Co. | | 82 | 50 |

Real Estate.

| | | | | | | | | | | | | |
|------|---|---------------------|-------|--------|----|--|--|--|--|--|--|--|
| Feb. | 1 | To Brot. forward... | L. A. | 13,500 | 00 | | | | | | | |
|------|---|---------------------|-------|--------|----|--|--|--|--|--|--|--|

Furniture and Fixtures.

| | | | | | | | | | | | | |
|------|---|---------------------|-------|-------|----|--|--|--|--|--|--|--|
| Feb. | 1 | To Brot. forward... | L. A. | 1,500 | 00 | | | | | | | |
|------|---|---------------------|-------|-------|----|--|--|--|--|--|--|--|

Mortgage Payable.

| | | | | | | | | | | | |
|------|---|---------------|--|-------|----|------|---|--------------------|-------|--------|----|
| Feb. | 8 | To Cash | | 2,000 | 00 | Feb. | 1 | By Brot. from..... | L. A. | 10,000 | 00 |
|------|---|---------------|--|-------|----|------|---|--------------------|-------|--------|----|

Bills Payable.

| | | | | | | | | | | | |
|------|----|--------------|--|--------|----|------|----|--------------------|-------|--------|----|
| Feb. | 9 | To Cash..... | | 1,509 | 07 | Feb. | 1 | By Brot. from..... | L. A. | 23,109 | 07 |
| | 13 | " Cash..... | | 2,750 | 00 | | 25 | " Mdse..... | | 2,560 | 25 |
| | 23 | " Cash..... | | 14,000 | 00 | | | | | | |

Bills Receivable.

| | | | | | | | | | | | |
|------|----|--------------------|-------|-------|----|------|---|--------------------|-------|-------|----|
| Feb. | 1 | To Brot. from..... | L. A. | 9,878 | 40 | Feb. | 1 | By Brot. from..... | L. A. | 5,261 | 90 |
| | 11 | " Mdse..... | | 815 | 00 | | | | | | |
| | 14 | " Mdse..... | | 750 | 00 | | | | | | |
| | 18 | " Mdse..... | | 1,075 | 00 | | | | | | |

C. A. Pillsbury & Co., Minneapolis.

| | | | | | | | | | | | |
|------|---|--------------|--|-------|----|------|---|--------------------|-------|-------|----|
| Feb. | 1 | To Cash..... | | 3,075 | 00 | Feb. | 1 | By Brot. from..... | L. A. | 3,075 | 00 |
|------|---|--------------|--|-------|----|------|---|--------------------|-------|-------|----|

THE EXPERT'S ASSISTANT.

Armour Packing Co., Chicago.

| | | | | | | | | | | | |
|--------------|---|--------------|--|-------|----|--------------|---|--------------------|-------|-------|----|
| 1890 Feb. | 2 | To Cash..... | | 2,700 | 00 | 1890 Feb. | 1 | By Brot. from..... | L. A. | 2,700 | 00 |
| | | | | | | | | | | | |

New York Refining Co., New York.

| | | | | | | | | | | | |
|--|--|--|--|--|--|------|---|--------------------|-------|-------|----|
| | | | | | | Feb. | 1 | By Brot. from..... | L. A. | 5.187 | 50 |
| | | | | | | | | | | | |

A. H. Jones & Co., Denver.

| | | | | | | | | | | | |
|------|---|--------------------|-------|-------|----|------|----|--------------|--|-------|----|
| Feb. | 1 | To Brot. from..... | L. A. | 1,234 | 00 | Feb. | 22 | By Cash..... | | 1,000 | 00 |
| | 2 | " Mdse..... | | 1,275 | 00 | | | | | | |
| | | | | | | | | | | | |

N. K. Fairbanks & Co., Chicago.

| | | | | | | | | | | | |
|------|----|--------------|--|-----|----|------|---|--------------------|-------|-----|----|
| Feb. | 11 | To Cash..... | | 900 | 00 | Feb. | 1 | By Brot. from..... | L. A. | 900 | 00 |
| | | | | | | | | | | | |

H. Wilson & Co., Fargo.

| | | | | | | | | | | | |
|------|----|--------------------|-------|-----|----|------|----|--------------|--|-----|----|
| Feb. | 1 | To Brot. from..... | L. A. | 834 | 97 | Feb. | 4 | By Cash..... | | 250 | 00 |
| | 4 | " Mdse..... | | 389 | 20 | | 18 | " Cash..... | | 600 | 00 |
| | 18 | " Mdse..... | | 523 | 95 | | 28 | " Cash..... | | 525 | 00 |
| | 23 | " Mdse..... | | 348 | 00 | | | | | | |
| | 27 | " Mdse..... | | 600 | 25 | | | | | | |

W. H. Johnson & Co., Brainerd.

| | | | | | | | | | | | |
|------|----|--------------------|-------|-------|----|------|----|--------------------|-------|-----|----|
| Feb. | 1 | To Brot. from..... | L. A. | 1,375 | 75 | Feb. | 1 | By Brot. from..... | L. A. | 750 | 00 |
| | 9 | " Mdse..... | | 431 | 00 | | 19 | " Cash..... | | 550 | 00 |
| | 21 | " Mdse..... | | 505 | 50 | | | | | | |

Fisher & Kellogg, City.

| | | | | | | | | | | | |
|------|----|--------------------|-------|-----|----|------|----|--------------------|-------|----|----|
| Feb. | 1 | To Brot. from..... | L. A. | 157 | 39 | Feb. | 1 | By Brot. from..... | L. A. | 75 | 00 |
| | 1 | " Mdse..... | | 745 | 00 | | 12 | " Cash..... | | 82 | 39 |
| | 12 | " Mdse..... | | 305 | 50 | | | | | | |

E. H. Taylor & Co., Stillwater.

| | | | | | | | | | | | |
|--------------|--------------|--------------------|-------|-------------------|----------------|--------------|---------|--------------------|-------|------------|----------|
| 1890 Feb. | 1 5 16 | To Brot. from..... | L. A. | 740 615 651 | 00 00 75 | 1890 Feb. | 1 16 | By Brot. from..... | L. A. | 250 500 | 00 00 |
| | | " Mdse..... | | | | | | " Cash..... | | | |
| | | " Mdse..... | | | | | | | | | |

First National Bank Stock.

| | | | | | | | | | | | |
|------|---|--------------------|-------|-------|----|------|---|------------------|--|-----|----|
| Feb. | 1 | To Brot. from..... | L. A. | 6,250 | 00 | Feb. | 6 | By Cash Dividend | | 250 | 00 |
|------|---|--------------------|-------|-------|----|------|---|------------------|--|-----|----|

James Wilson & Co., City.

| | | | | | | | | | | | |
|------|---|--------------|--|-----|----|------|---|--------------------|-------|-----|----|
| Feb. | 6 | To Cash..... | | 250 | 00 | Feb. | 1 | By Brot. from..... | L. A. | 250 | 00 |
|------|---|--------------|--|-----|----|------|---|--------------------|-------|-----|----|

Shipment to Memphis.

| | | | | | | | | | | | |
|------|---|--------------------|-------|-----|----|------|---|--------------------|-------|-----|----|
| Feb. | 1 | To Brot. from..... | L. A. | 581 | 25 | Feb. | 1 | By Brot. from..... | L. A. | 697 | 50 |
|------|---|--------------------|-------|-----|----|------|---|--------------------|-------|-----|----|

P. H. Kelly & Co., City.

| | | | | | | | | | | | |
|------|--------------------------|--------------------|-------|-----------------------------------|----------------------------|------|---------|---------------|--|-----|----|
| Feb. | 1 6 13 26 28 | To Brot. from..... | L. A. | 400 827 1,562 975 615 | 00 50 50 00 00 | Feb. | 5 27 | By Cash. | | 400 | 00 |
| | | " Mdse..... | | | | | | " Cash..... | | 827 | 50 |
| | | " Mdse..... | | | | | | | | | |
| | | " Mdse..... | | | | | | | | | |
| | | " Mdse..... | | | | | | | | | |

Donaldson & Co., St. Cloud.

| | | | | | | | | | | | |
|------|--------------------|--------------------|-------|--------------------------|----------------------|------|---------------|--------------|--|-----|----|
| Feb. | 1 7 15 22 | To Brot. from..... | L. A. | 992 240 581 668 | 24 00 75 75 | Feb. | 7 15 25 | By Cash..... | | 500 | 00 |
| | | " Mdse..... | | | | | | " Cash..... | | 350 | 00 |
| | | " Mdse..... | | | | | | " Cash..... | | 350 | 00 |
| | | " Mdse..... | | | | | | | | | |

Storage and Advertising.

| | | | | | | | | | | | |
|------|---|--------------------|-------|----|----|------|---|--------------------|-------|----|----|
| Feb. | 1 | To Brot. from..... | L. A. | 25 | 00 | Feb. | 1 | By Brot. from..... | L. A. | 15 | 00 |
|------|---|--------------------|-------|----|----|------|---|--------------------|-------|----|----|

Commission.

| | | | | | | | | | | | |
|--|--|--|--|--|--|--------------|---|--------------------|-------|----|----|
| | | | | | | 1890 Feb. | 1 | By Brot. from..... | L. A. | 41 | 87 |
|--|--|--|--|--|--|--------------|---|--------------------|-------|----|----|

Profit and Loss.

| | | | | | | | | | | | |
|--|--|--|--|--|--|------|---|--------------------|-------|----|----|
| | | | | | | Feb. | 1 | By Brot. from..... | L. A. | 59 | 06 |
|--|--|--|--|--|--|------|---|--------------------|-------|----|----|

Sprague, Warner & Co., Chicago.

| | | | | | | | | | | | |
|--------------|----|--------------|--|-------|----|------|--------|-----------------------------------|-------|----------------|----------|
| 1890 Feb. | 26 | To Cash..... | | 3,750 | 00 | Feb. | 1 8 | By Brot. from..... " Mdse..... | L. A. | 3,750 1,825 | 00 00 |
|--------------|----|--------------|--|-------|----|------|--------|-----------------------------------|-------|----------------|----------|

Expense.

| | | | | | | | | | | | |
|------|---------|-----------------------------------|-------|--------------|----------|--|--|--|--|--|--|
| Feb. | 1 28 | To Brot. from..... " Cash..... | L. A. | 1,056 618 | 85 85 | | | | | | |
|------|---------|-----------------------------------|-------|--------------|----------|--|--|--|--|--|--|

TRIAL BALANCE B. K. MARSHALL & CO., FEB. 28TH, 1890.

| NAMES. | L. F. | TOTALS. | | | | DIFFERENCES. | | | |
|---|---------|---------|---------|---------|--------|--------------|-------|--------|----|
| | | | | | | | | | |
| B. K. Marshall..... | | | | 25,000 | 00 | | | 25,000 | 00 |
| B. S. Knowlton..... | | | | 25,000 | 00 | | | 25,000 | 00 |
| First National Bank..... | 81,224 | 38 | 47,635 | 28 | 33,589 | 10 | | | |
| Merchandise..... | 55,004 | 05 | 56,652 | 50 | | | 1,648 | 45 | |
| Cash..... | 132,998 | 71 | 132,834 | 77 | 163 | 94 | | | |
| Freight..... | 746 | 10 | | | 746 | 10 | | | |
| Interest and Discount..... | 454 | 47 | 1,252 | 54 | | | 798 | 07 | |
| Real Estate..... | 13,500 | 00 | | | 13,500 | 00 | | | |
| Furniture and Fixtures..... | 1,500 | 00 | | | 1,500 | 00 | | | |
| Mortgage Payable..... | 2,000 | 00 | 10,000 | 00 | | | 8,000 | 00 | |
| Bills Payable..... | 18,259 | 07 | 25,669 | 32 | | | 7,410 | 25 | |
| Bills Receivable..... | 12,518 | 40 | 5,261 | 90 | 7,256 | 50 | | | |
| New York Refining Co..... | | | 5,187 | 50 | | | 5,187 | 50 | |
| A. H. Jones & Co..... | 2,509 | 00 | 1,000 | 00 | 1,509 | 00 | | | |
| H. Wilson & Co..... | 2,666 | 37 | 1,375 | 00 | 1,321 | 37 | | | |
| W. H. Johnson & Co..... | 2,372 | 25 | 1,300 | 00 | 1,072 | 25 | | | |
| Fisher & Kellogg..... | 1,207 | 89 | 157 | 39 | 1,050 | 50 | | | |
| E. H. Taylor & Co..... | 2,006 | 75 | 750 | 00 | 1,256 | 75 | | | |
| First National Bank Stock..... | 6,250 | 00 | 250 | 00 | 6,000 | 00 | | | |
| Shipment to Memphis..... | 581 | 25 | 697 | 50 | | | 116 | 25 | |
| P. H. Kelly & Co..... | 4,380 | 00 | 1,227 | 50 | 3,152 | 50 | | | |
| Donaldson & Co..... | 2,482 | 74 | 1,200 | 00 | 1,282 | 74 | | | |
| Storage and Advertising..... | 25 | 00 | 15 | 00 | 10 | 00 | | | |
| Commission..... | | | 41 | 87 | | | 41 | 87 | |
| Profit and Loss..... | | | 59 | 06 | | | 59 | 06 | |
| Sprague, Warner & Co..... | 3,750 | 00 | 5,575 | 00 | | | 1,825 | 00 | |
| Expense..... | 1,675 | 70 | | | 1,675 | 70 | | | |
| | | 348,142 | 13 | 348,142 | 13 | 75,086 | 45 | 75,086 | 45 |
| Accts. Balanced. Proof by Totals. | | Dr. | | Cr. | | | | | |
| 3,075.00 Trial Balance, January..... | 235,661 | 21 | 235,661 | 21 | | | | | |
| 2,700.00 Posted from Journal, Sundries... | 14,560 | 65 | 4,385 | 25 | | | | | |
| 900.00 Posted from Journal, Mdse..... | 4,385 | 25 | 14,560 | 65 | | | | | |
| 250.00 Posted from Cash, all accounts... | 50,274 | 31 | 50,185 | 71 | | | | | |
| 6,925.00 | | | | | | | | | |
| Posted from Cash to Cash..... | 50,185 | 71 | 50,274 | 31 | | | | | |
| | 355,067 | 13 | 355,067 | 13 | | | | | |
| Less acct. bal'cd. during month | 6,925 | 00 | 6,925 | 00 | | | | | |
| Trial Balance should foot..... | 348,142 | 13 | 348,142 | 13 | | | | | |

PROOF OF TRIAL BALANCE BY DIFFERENCES, FEB. 28th, 1890.

| DEBIT SIDE. | INCREASE. | | DECREASE. | | CREDIT SIDE. | INCREASE. | | DECREASE. | |
|--|-----------|----|-----------|----|--|-----------|----|-----------|----|
| January Balance..... | 100, 104 | 32 | | | January Balance..... | 100, 104 | 32 | | |
| Mdse. Balance..... | 1, 648 | 45 | | | Mdse. Balance..... | 1, 648 | 45 | | |
| Mdse. Cash Purchases for month..... | 1, 420 | 50 | | | Mdse. Credit Purch.. | 4, 385 | 25 | | |
| Mdse. Credit Purchases for month..... | 4, 385 | 25 | | | Interest Received..... | 82 | 50 | | |
| Expense for month..... | 618 | 85 | | | Total Increase..... | 106, 220 | 52 | | |
| Freight for month..... | 18 | 50 | | | Payments Bills P'ble and Accts..... | | | 30, 934 | 07 |
| Total Increase..... | 108, 195 | 87 | | | Payments Interest.... | | | 200 | 00 |
| Mdse. Cash Sales mo... | | | 12, 816 | 75 | Total to be dedctd. | 31, 134 | 07 | 31, 134 | 07 |
| Cash Decrease in Bal.. | | | 88 | 60 | Trial Bal. sh'd foot | 75, 086 | 45 | | |
| Bank Decrease in Bal.. | | | 14, 019 | 18 | | | | | |
| Cash Recd. on Accts... | | | 6, 184 | 89 | | | | | |
| Total to be deducted | 33, 109 | 42 | 33, 109 | 42 | Payments— | | | | |
| Trial Bal. should foot | 75, 086 | 45 | | | Mortgage Payable.... | 2, 000 | 00 | | |
| | | | | | Bills Payable..... | 18, 259 | 07 | | |
| Received on Acct— | 1, 000 | 00 | | | Accounts— | | | | |
| | 1, 375 | 00 | | | 3, 075.00 | | | | |
| | 550 | 00 | | | 2, 700.00 | | | | |
| | 82 | 39 | | | 900.00 | | | | |
| | 750 | 00 | | | 250.00 | | | | |
| | 1, 227 | 50 | | | 3, 750.00 | 10, 675 | 00 | | |
| | 1, 200 | 00 | | | Total Payments..... | 30, 934 | 07 | | |
| | 6, 184 | 89 | | | | | | | |

In this illustration, in making up the proof, we start with the footing of the previous month's trial balance, and as the balance of the Merchandise account has changed to the credit side, we use that balance to increase the debit side or assets, as it represents that much of the amounts due from personal accounts. The purchases of merchandise for cash and credit are used, as before, and for the same reason, as are the amounts paid during the month for expense and freight.

The debit side is decreased by the cash sales of merchandise, as before, and by the decrease or difference in the amount of the balance in bank and cash during the month, as the assets are reduced by that difference; also, by the receipts on Bills Receivable and other accounts, as previously explained.

The credit balance of the previous month is increased by the balance of Merchandise account, it having changed to the credit side. That account now shows an apparent liability. It is also increased by the credit purchases (as they represent the liability incurred to others), and by the net amount of interest received during the month.

The credit side is decreased by the payments on Mortgage Payable, Bills Payable and other accounts, as before.

March 1st.

| | | | | |
|--|----------------------------|----------------------------|--------|----|
| Recd. of Swift & Co., Chicago, to be sold on joint acct., each $\frac{1}{2}$ (Mdse. Co. B), 500 bbls. Mess Pork.....@ 12.00 50,000 lbs. Lard.....@ 8 | 6,000 4,000 | 00 00 | 10,000 | 00 |
| 2d. | | | | |
| Bot. for our note, @ 3 mos., of Eureka Packing Co., San Francisco, Canned Goods, as per invoice..... | 5,000 | 00 | | |
| 4th. | | | | |
| Sold Allen, Moon & Co., from Mdse. Co. B, for their note @ 30 days, 100 bbls. Mess Pork.....@ 14.00 | 1,400 | 00 | | |
| 5th. | | | | |
| Sold Fisher & Kellogg, 500 lbs. Bacon.....@ 10 200 lbs. Lard.....@ 10 2 bbls. Coal Oil, 90 gals.....@ 11 | 50 20 9 | 00 00 90 | 79 | 90 |
| 6th. | | | | |
| Sold P. H. Kelly & Co., 100 cases Canned Goods, asstd.....@ 6.50 From Mdse. Co. B..... 10,000 lbs. Lard.....@ $9\frac{1}{2}$ | 650 950 | 00 00 | 1,600 | 00 |
| 7th. | | | | |
| Bot. of Perry, Nichols & Co., for our note @ 3 mos., Mdse., as per invoice..... | 4,625 | 00 | | |
| 8th. | | | | |
| Recd. of A. H. Jones & Co., Denver, Their note @ 30 days, to balance acct.. | 1,509 | 00 | | |
| 9th. | | | | |
| Sold Gustav Willius, in exchange for Lot 5, Blk 6, Willius' Add. to St. Paul, 50 shares First Natl. Bank Stock, @ 140.00 | 7,000 | 00 | | |
| 11th. | | | | |
| Sold E. H. Taylor & Co., 2 bbls. Sugar, 495 lbs.....@ 10 2 bbls. Syrup, 85 gals.....@ 55 100 lbs. Java Coffee.....@ 28 200 lbs. Rio.....@ 25 Cartage..... | 49 46 28 50 50 | 50 75 00 00 50 | 174 | 75 |

March 12th.

| | | | | |
|--|-------|----|-------|----|
| Bot. of Washburn Milling Co., for our note @ 30 days, 1,000 bbls. Flour.....@ 5.50 And shipped the same to C. S. Morey & Co, Denver, Col., on joint acct., each ½. | 5,500 | co | | |
| 13th. | | | | |
| Sold Donaldson & Co., 100 cases Canned Goods, asstd.....@ 6.75 | 675 | 00 | | |
| 2 m. G. M. Cigars.....@ 67.50 | 135 | 00 | | |
| 2 m. P. B. Cigars.....@ 35.00 | 70 | 00 | | |
| Cartage..... | | 50 | 880 | 50 |
| 14th. | | | | |
| Sold J. L. Terry, Lot 5, Blk 6, Willis' Add., for..... On which we took a mortgage at 2 and 3 years, @ 6%, for..... | 5,000 | 00 | 7,500 | 00 |
| Balance Cash, as per Cash Book..2,500.00 | | | | |
| 15th. | | | | |
| Sold H. Wilson & Co., from Mdse. Co. B, 50 bbls. Mess Pork.....@ 14.25 | 712 | 50 | | |
| 2,000 lbs. Lard@ 9¾ | 195 | 00 | | |
| Cartage..... | I | 00 | 908 | 50 |
| 16th. | | | | |
| Sold W. H. Johnson & Co., 50 boxes Soap, 3,000 lbs.....@ 4 | 120 | 00 | | |
| 1,000 lbs. Lard@ 10 | 100 | 00 | | |
| 1,000 lbs. Bacon.....@ 10 | 100 | 00 | | |
| 100 lbs. Climax Plug.....@ 50 | 50 | 00 | | |
| Cartage..... | | 50 | 370 | 50 |
| 18th. | | | | |
| Sold H. Wilson & Co., 100 cases Canned Goods.....@ 6 75 | 675 | 00 | | |
| 500 lbs. Java Coffee.....@ 28 | 140 | 00 | | |
| 500 lbs. Rio Coffee@ 25 | 125 | 00 | | |
| 100 lbs. Y. H. Tea.....@ 55 | 55 | 00 | | |
| Cartage..... | | 50 | 995 | 50 |
| 19th. | | | | |
| Sold Fisher & Kellogg, 2 m. G. M. Cigars.....@ 67.50 | 135 | 00 | | |
| 3 m. P. B. Cigars.....@ 35.00 | 105 | 00 | | |
| 1 m. Key West Cigars@ 50.00 | 50 | 00 | 290 | 00 |

March 20th.

| | | | | |
|---|------------------------------|----------------------------|-------|----|
| Sold Donaldson & Co., 3 bbls. Sugar, 800 lbs.....@ 10 2 bbls. Syrup, 85 gals.....@ 55 100 lbs. Java Coffee.....@ 28 100 lbs. Rio Coffee.....@ 25 Cartage..... | 80 46 28 25 50 | 00 75 00 00 25 | 180 | 25 |
| 21st. | | | | |
| Sold Beaupre, Keogh & Co., for note @ 30 days, from Mdse. Co. B, 100 bbls. Mess Pork.....@ 14.00 10,000 lbs. Lard.....@ 9½ | 1,400 950 | 00 00 | 2,350 | 00 |
| 22d. | | | | |
| Sold E. H. Taylor & Co., 2 m. Key West Cigars.....@ 50.00 2 m. G. M. Cigars.....@ 67.50 1 m. P. B. Cigars..... 100 lbs. P. H. Plug..... | 100 135 35 55 | 00 00 00 00 | 325 | 00 |
| 23d. | | | | |
| Sold Griggs, Howe & Co., for note @ 60 days, 200 cases Canned Goods, asstd.....@ 6.60 | 1,320 | 00 | | |
| 25th. | | | | |
| Recd Acct. Sales from C. S. Morey & Co., of shipment of 1,000 bbls. Flour on joint acct., Our net gain..... | 575 | 00 | | |
| 26th. | | | | |
| Bot. of Sprague, Warner & Co., Mdse., as per invoice..... | 2,950 | 00 | | |
| 27th. | | | | |
| Sold Allen, Moon & Co., for note @ 30 days, from Mdse. Co. B, 150 bbls. Mess Pork.....@ 14.00 10,000 lbs. Lard.....@ 9½ | 2,100 950 | 00 00 | 3,050 | 00 |
| 28th. | | | | |
| Sold H. Wilson & Co., 10 bbls. Sugar, 2,850 lbs.....@ 10 5 bbls. Syrup, 215 gals.....@ 55 100 lbs. G. P. Tea.....@ 56 100 lbs. Y. H. Tea.....@ 55 Cartage..... | 285 118 56 55 50 | 00 25 00 00 00 | 514 | 75 |

March 29th.

| | | | | | |
|------------------------------------|------|-----|----|-----|----|
| Sold Donaldson & Co., | | | | | |
| 50 boxes Soap, 3,000 lbs.....@ | 4 | 120 | 00 | | |
| 10 bbls. Coal Oil, 415 gals.....@ | 11 | 45 | 65 | | |
| 1,000 lbs. Lard.....@ | 10 | 100 | 00 | | |
| 1,000 lbs. Bacon.....@ | 10 | 100 | 00 | | |
| Cartage..... | | 1 | 50 | 366 | 15 |
| 30th. | | | | | |
| Sold E. H. Taylor & Co., | | | | | |
| 50 cases Canned Goods, asstd.....@ | 6.75 | 337 | 50 | | |
| 10 bbls. Sugar, 2,865 lbs.....@ | 10 | 286 | 50 | | |
| 5 bbls. Syrup, 220 gals.....@ | 55 | 121 | 00 | | |
| 25 boxes Soap, 1,500 lbs.....@ | 4 | 60 | 00 | | |
| Cartage..... | | | 50 | 805 | 50 |

| 1890. | | DR. CASH. | MDSE. | | SUNDRIES. | BALANCES. | |
|-------|----|----------------------------------|--------|----|-----------|-----------|------------|
| Mch. | 1 | To Balance on hand..... | | | | 163 | 94 |
| | | " Mdse., per Sales Book..... | 275 | 80 | | | |
| | 2 | " First National Bank..... | | | 575 | 00 | |
| | | " Mdse., per Sales Book..... | 226 | 50 | | | |
| | 4 | " Fisher & Kellogg | | | 400 | 00 | |
| | | " Mdse., per Sales Book..... | 247 | 70 | | | |
| | | " First National Bank..... | | | 5, 187 | 50 | |
| | 5 | " P. H. Kelly & Co..... | | | 1, 562 | 50 | |
| | | " Mdse., per Sales Book..... | 325 | 90 | | | |
| | | " Mdse., per Sales Book..... | 174 | 25 | | | |
| | | " First National Bank..... | | | 147 | 25 | |
| | 7 | " Mdse., per Sales Book..... | 287 | 30 | | | |
| | 8 | " Bills Rec., A. H. J. & Co..... | | | 1, 509 | 00 | |
| | | " Mdse., per Sales Book..... | 210 | 20 | | | |
| | 9 | " E. H. Taylor & Co..... | | | 500 | 00 | |
| | | " Mdse., per Sales Book..... | 253 | 40 | | | |
| | 11 | " First National Bank..... | | | 527 | 00 | |
| | | " Mdse., per Sales Book..... | 187 | 50 | | | |
| | 12 | " Donaldson & Co..... | | | 600 | 00 | |
| | | " Mdse., per Sales Book..... | 310 | 45 | | | |
| | 13 | " Bills Rec., H. P. U. & Co..... | | | 3, 740 | 70 | |
| | | " Mdse., per Sales Book..... | 225 | 00 | | | |
| | 14 | " Real Est., J. L. Terry..... | | | 2, 500 | 00 | |
| | | " Mdse., per Sales Book | 260 | 35 | | | |
| | 15 | " H. Wilson & Co..... | | | 750 | 00 | |
| | | " Mdse., per Sales Book..... | 231 | 50 | | | |
| | 16 | " Bills Rec., A. M. & Co..... | | | 750 | 00 | |
| | | " Mdse., per Sales Book..... | 247 | 25 | | | |
| | 18 | " W. H. Johnson & Co..... | | | 450 | 00 | |
| | | " Mdse., per Sales Book..... | 280 | 25 | | | |
| | 19 | " First National Bank..... | | | 1, 825 | 00 | |
| | | " Mdse., per Sales Book..... | 230 | 70 | | | |
| | 20 | " H. Wilson & Co..... | | | 850 | 00 | |
| | | " Mdse., per Sales Book..... | 241 | 50 | | | |
| | 21 | " Fisher & Kellogg..... | | | 300 | 00 | |
| | | " Mdse., per Sales Book..... | 197 | 40 | | | |
| | 22 | " Donaldson & Co..... | | | 650 | 00 | |
| | | " Mdse., per Sales Book..... | 301 | 55 | | | |
| | 23 | " First National Bank..... | | | 4, 564 | 62 | |
| | | " Int. and Dis., P. N. & Co..... | | | 60 | 38 | |
| | 25 | " E. H. Taylor & Co..... | | | 500 | 00 | |
| | | " Mdse., per Sales Book..... | 426 | 75 | | | |
| | 26 | " P. H. Kelly & Co..... | | | 975 | 00 | |
| | | " Mdse., per Sales Book..... | 201 | 20 | | | |
| | 27 | " H. Wilson & Co..... | | | 500 | 00 | |
| | | " Mdse., per Sales Book..... | 250 | 00 | | | |
| | 28 | " First National Bank..... | | | 4, 906 | 95 | |
| | | " Int. & Dis., E. Pkg. Co..... | | | 93 | 05 | |
| | 29 | " Donaldson & Co..... | | | 450 | 00 | |
| | | " Mdse., per Sales Book..... | 265 | 30 | | | |
| | 30 | " E. H. Taylor & Co..... | | | 900 | 00 | |
| | | " Mdse., per Sales Book..... | 195 | 65 | | | |
| | | To Mdse. Sales for month..... | 6, 053 | 40 | | | |
| | | | | | 35, 773 | 95 | |
| | | | | | | | 41, 827 35 |
| | | | | | | | 41, 991 29 |

| 1890. | | CR. CASH. | EXPENSES. | | SUNDRIES. | | BALANCES. | |
|-------|----|------------------------------------|-----------|----|-----------|----|-----------|----|
| Mch. | 1 | By Expense, Gas 55.00, Sunds. 4.80 | 59 | 80 | | | | |
| | 2 | " Mdse. Co. B, Freight and Cige | | | 575 | 00 | | |
| | | " Expense, Sundries..... | 6 | 85 | | | | |
| | 4 | " First Natl. Bank, Deposit..... | | | 1,000 | 00 | | |
| | | " N. Y. Refining Co..... | | | 5,187 | 50 | | |
| | | " Expense, Sundries..... | 5 | 45 | | | | |
| | 5 | " First Natl. Bank, Deposit..... | | | 1,862 | 50 | | |
| | | " Expense, Sundries..... | 11 | 25 | | | | |
| | 6 | " Freight..... | | | 147 | 25 | | |
| | | " Expense, Sundries..... | 3 | 60 | | | | |
| | 7 | " First Natl. Bank, Deposit..... | | | 450 | 00 | | |
| | | " Expense, Sundries..... | 4 | 35 | | | | |
| | 8 | " First Natl. Bank, Dis..... | | | 1,497 | 93 | | |
| | | " Int. & Dis., A. H. J. & Co..... | | | 11 | 07 | | |
| | 9 | " First Natl. Bank, Deposit..... | | | 950 | 00 | | |
| | | " Expense, Sundries..... | 7 | 45 | | | | |
| | 11 | " Freight..... | | | 527 | 00 | | |
| | | " Expense, Sundries..... | 16 | 25 | | | | |
| | 12 | " First Natl. Bank, Deposit..... | | | 800 | 00 | | |
| | | " Expense..... | 5 | 30 | | | | |
| | 13 | " First Natl. Bank, Dis..... | | | 3,723 | 47 | | |
| | | " Int. & Dis. H P. U. & Co..... | | | 17 | 23 | | |
| | 14 | " First Natl. Bank, Deposit..... | | | 2,850 | 00 | | |
| | 15 | " First Natl. Bank, Deposit..... | | | 1,000 | 00 | | |
| | | " Expense, Pay Roll..... | 225 | 00 | | | | |
| | | " Expense, Sundries..... | 18 | 40 | | | | |
| | 16 | " First Natl. Bank, Deposit..... | | | 1,200 | 00 | | |
| | | " Expense, Sundries..... | 6 | 50 | | | | |
| | 18 | " First Natl. Bank, Deposit..... | | | 450 | 00 | | |
| | 19 | " Sprague, Warner & Co..... | | | 1,825 | 00 | | |
| | 20 | " Expense, Sundries..... | 15 | 25 | | | | |
| | | " First Natl. Bank, Deposit..... | | | 1,350 | 00 | | |
| | 21 | " First Natl. Bank, Deposit..... | | | 550 | 00 | | |
| | | " Expense, Sundries..... | 10 | 50 | | | | |
| | 22 | " First Natl. Bank, Deposit..... | | | 850 | 00 | | |
| | | " Expense, Sundries..... | 7 | 80 | | | | |
| | 23 | " Bills Payable, P. N. & Co..... | | | 4,625 | 00 | | |
| | | " Expense, Sundries..... | 4 | 75 | | | | |
| | 25 | " First Natl. Bank..... | | | 750 | 00 | | |
| | | " Expense, Sundries..... | 11 | 20 | | | | |
| | 26 | " First Natl. Bank, Deposit..... | | | 1,375 | 00 | | |
| | | " Expense, Sundries..... | 12 | 50 | | | | |
| | 27 | " First Natl. Bank, Deposit..... | | | 750 | 00 | | |
| | 28 | " Bills Payable, E. Pkg. Co..... | | | 5,000 | 00 | | |
| | | " Expense, Sundries..... | 6 | 45 | | | | |
| | 29 | " First Natl. Bank, Deposit..... | | | 450 | 00 | | |
| | | " Expense, Sundries..... | 8 | 25 | | | | |
| | 30 | " Expense, Pay Roll..... | 225 | 00 | | | | |
| | | " Expense, Sundries..... | 9 | 40 | | | | |
| | | By First Natl. Bank, Deposit..... | | | 1,300 | 00 | | |
| | | By Expense for month..... | 681 | 30 | | | 41,755 | 25 |
| | | | | | 41,073 | 95 | 236 | 04 |
| | | By Balance on hand..... | | | | | 41,991 | 29 |

| Mdse. | | Sundries. | | March 1st, 1890. | | Sundries. | | Mdse. | |
|-------|----|-----------|----|-------------------------------------|--------|-----------|-------|-------|----|
| | | 10,000 | 00 | Mdse. Co. B Dr. to | | | | | |
| | | | | Swift & Co..... | 10,000 | 00 | | | |
| 5,000 | 00 | | | 2d. | | | | | |
| | | | | Mdse. Dr. to | | | | | |
| | | | | Bills Payable..... | 5,000 | 00 | | | |
| | | 1,400 | 00 | 4th. | | | | | |
| | | | | Bills Receivable Dr. to | | | | | |
| | | | | Mdse. Co. B..... | 1,400 | 00 | | | |
| | | 79 | 90 | 5th. | | | | | |
| | | | | Fisher & Kellogg, Dr. to | | | | 79 | 90 |
| | | | | Mdse..... | | | | | |
| | | 1,600 | 00 | 6th. | | | | | |
| | | | | P. H. Kelly & Co., Dr. to Sundries. | | | | 650 | 00 |
| | | | | Mdse..... | 950 | 00 | | | |
| | | | | Mdse. Co. B. | | | | | |
| 4,625 | 00 | | | 7th. | | | | | |
| | | | | Mdse. Dr. to | | | | | |
| | | | | Bills Payable..... | 4,625 | 00 | | | |
| | | 1,509 | 00 | 8th. | | | | | |
| | | | | Bills Receivable Dr. to | | | | | |
| | | | | A. H. Jones & Co. | 1,509 | 00 | | | |
| | | 7,000 | 00 | 9th. | | | | | |
| | | | | Real Estate Dr. to | | | | | |
| | | | | First Natl. Bank Stock. | 7,000 | 00 | | | |
| | | 174 | 75 | 11th. | | | | | |
| | | | | E. H. Taylor & Co., Dr. to | | | | 174 | 75 |
| | | | | Mdse..... | | | | | |
| | | 5,500 | 00 | 12th. | | | | | |
| | | | | C. S. Morey & Co., Dr. to | | | | | |
| | | | | Bills Payable. | 5,500 | 00 | | | |
| | | 880 | 50 | 13th. | | | | | |
| | | | | Donaldson & Co. Dr. to | | | | 880 | 50 |
| | | | | Mdse..... | | | | | |
| | | 5,000 | 00 | 14th. | | | | | |
| | | | | Mortgage Receivable Dr. to | | | | | |
| | | | | Real Estate. | 5,000 | 00 | | | |
| | | 908 | 50 | 15th. | | | | | |
| | | | | H. Wilson & Co., Dr. to | | | | | |
| | | | | Mdse. Co. B.... | 908 | 50 | | | |
| | | 370 | 50 | 16th. | | | | | |
| | | | | W. H. Johnson & Co., Dr. to | | | | 370 | 50 |
| | | | | Mdse..... | | | | | |
| | | 995 | 50 | 18th. | | | | | |
| | | | | H. Wilson & Co., Dr. to | | | | 995 | 50 |
| | | | | Mdse..... | | | | | |
| | | 290 | 00 | 19th. | | | | | |
| | | | | Fisher & Kellogg, Dr. to | | | | 290 | 00 |
| | | | | Mdse..... | | | | | |
| | | 180 | 25 | 20th. | | | | | |
| | | | | Donaldson & Co., Dr. to | | | | 180 | 25 |
| | | | | Mdse..... | | | | | |
| | | 2,350 | 00 | 21st. | | | | | |
| | | | | Bills Receivable Dr. to | | | | | |
| | | | | Mdse. Co. B.... | 2,350 | 00 | | | |
| 9,625 | 00 | 38,238 | 90 |Carried Forward..... | 44,242 | 50 | 3,621 | 40 | |

| Mdse. | | Sundries. | | March 22d, 1890. | | Sundries. | | Mdse. | |
|--------|----|-----------|----|---------------------------------------|--|-----------|----|-------|----|
| 9,625 | 00 | 38,238 | 90 | <i>Brought Forward</i> | | 44,242 | 50 | 3,621 | 40 |
| | | 325 | 00 | E. H. Taylor & Co., Dr. to | | | | 325 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 23d. | | | | | |
| | | 1,320 | 00 | Bills Receivable Dr. to | | | | 1,320 | 00 |
| | | | | Mdse..... | | | | | |
| | | | | 25th. | | | | | |
| | | 575 | 00 | C. S. Morey & Co., Dr. to | | 575 | 00 | | |
| | | | | Profit and Loss. | | | | | |
| | | | | 26th. | | | | | |
| 2,950 | 00 | | | Mdse. Dr. to | | | | | |
| | | | | Sprague, Warner & Co... | | 2,950 | 00 | | |
| | | | | 27th. | | | | | |
| | | 3,050 | 00 | Bills Receivable Dr. to | | | | | |
| | | | | Mdse. Co. B.... | | 3,050 | 00 | | |
| | | | | 28th. | | | | | |
| | | 514 | 75 | H. Wilson & Co., Dr. to | | | | 514 | 75 |
| | | | | Mdse..... | | | | | |
| | | | | 29th. | | | | | |
| | | 366 | 15 | Donaldson & Co., Dr. to | | | | 366 | 15 |
| | | | | Mdse..... | | | | | |
| | | | | 30th. | | | | | |
| | | 805 | 50 | E. H. Taylor & Co., Dr. to | | | | 805 | 50 |
| | | | | Mdse..... | | | | | |
| 12,575 | 00 | | | Mdse. Dr. for total purchases for mo. | | | | | |
| | | | | Mdse. Cr. for total sales for mo..... | | | | 6,952 | 80 |
| 12,575 | 00 | 45,195 | 30 | | | 50,817 | 50 | 6,952 | 80 |

B. K. Marshall.

| | | | | | | | | | | | |
|--|--|--|--|--|--|--------------|---|--------------------|-------|--------|----|
| | | | | | | 1890 Mch. | 1 | By Brot. from..... | L. B. | 25,000 | 00 |
|--|--|--|--|--|--|--------------|---|--------------------|-------|--------|----|

B. S. Knowlton.

| | | | | | | | | | | | |
|--|--|--|--|--|--|------|---|--------------------|-------|--------|----|
| | | | | | | Mch. | 1 | By Brot. from..... | L. B. | 25,000 | 00 |
|--|--|--|--|--|--|------|---|--------------------|-------|--------|----|

Merchandise.

| | | | | | | | | | | | |
|--------------|---------|--|-------|------------------|----------|------|---------|--|-------|--------------------------|----------------|
| 1890 Mch. | 1 30 | To Brot. from..... " Sundries Purchases for mo. | L. B. | 55,004 12,575 | 05 00 | Mch. | 1 30 | By Brot. from..... " Cash Sales for month..... " Sunds. Sales for month..... | L. B. | 56,652 6,053 6,952 | 50 40 80 |
|--------------|---------|--|-------|------------------|----------|------|---------|--|-------|--------------------------|----------------|

Cash.

| | | | | | | | | | | | |
|------|---------|---|-------|-------------------|----------|------|---------|---|-------|-------------------|----------|
| Mch. | 1 30 | To Brot. from..... " Rec'pts for mo. | L. B. | 132,998 41,827 | 71 35 | Mch. | 1 30 | By Brot. from..... " Disbmts. for mo | L. B. | 132,834 41,755 | 77 25 |
|------|---------|---|-------|-------------------|----------|------|---------|---|-------|-------------------|----------|

First National Bank.

| | | | | | | | | | | | |
|------|----|--------------------|-------|--------|----|------|----|--------------------|-------|--------|----|
| Mch. | 1 | To Brot. from..... | L. B. | 81,224 | 38 | Mch. | 1 | By Brot. from..... | L. B. | 47,635 | 28 |
| | 4 | " Cash Deposit... | | 1,000 | 00 | | 1 | " Cash Checks.... | | 575 | 00 |
| | 5 | " Cash Deposit... | | 1,862 | 50 | | 4 | " Cash Checks.... | | 5,187 | 50 |
| | 7 | " Cash Deposit... | | 450 | 00 | | 6 | " Cash Checks.... | | 147 | 25 |
| | 8 | " Cash Deposit... | | 1,497 | 93 | | 11 | " Cash Checks.... | | 527 | 00 |
| | 9 | " Cash Deposit... | | 950 | 00 | | 19 | " Cash Checks.... | | 1,825 | 00 |
| | 12 | " Cash Deposit... | | 800 | 00 | | 23 | " Cash Checks.... | | 4,564 | 62 |
| | 13 | " Cash Deposit... | | 3,723 | 47 | | 28 | " Cash Checks.... | | 4,906 | 95 |
| | 14 | " Cash Deposit... | | 2,850 | 00 | | | | | | |
| | 15 | " Cash Deposit... | | 1,000 | 00 | | | | | | |
| | 16 | " Cash Deposit... | | 1,200 | 00 | | | | | | |
| | 18 | " Cash Deposit... | | 450 | 00 | | | | | | |
| | 20 | " Cash Deposit... | | 1,350 | 00 | | | | | | |
| | 21 | " Cash Deposit... | | 550 | 00 | | | | | | |
| | 22 | " Cash Deposit... | | 850 | 00 | | | | | | |
| | 25 | " Cash Deposit... | | 750 | 00 | | | | | | |
| | 26 | " Cash Deposit... | | 1,375 | 00 | | | | | | |
| | 27 | " Cash Deposit... | | 750 | 00 | | | | | | |
| | 29 | " Cash Deposit... | | 450 | 00 | | | | | | |
| | 30 | " Cash Deposit... | | 1,300 | 00 | | | | | | |

Bills Receivable.

| 1890 | | | | | | 1890 | | | | | |
|------|----|----------------------|-------|---------|----|------|----|--------------------|-------|--------|----|
| Mch. | 1 | To Brot. from..... | L. B. | 12, 518 | 40 | Mch. | 1 | By Brot. from..... | L. B. | 5, 261 | 90 |
| | 4 | " Mdse. Co. B..... | | 1, 400 | 00 | | 8 | " Cash A. H. J. & | | 1, 509 | 00 |
| | 8 | " A. H. J. & Co..... | | 1, 509 | 00 | | 13 | " Cash H. P. U. & | | 3, 740 | 70 |
| | 21 | " Mdse. Co. B..... | | 2, 350 | 00 | | 16 | " Co., Dis..... | | 750 | 00 |
| | 23 | " Mdse..... | | 1, 320 | 00 | | | " Cash A.M. & Co | | | |
| | 27 | " Mdse. Co. B..... | | 3, 050 | 00 | | | | | | |

New York Refining Co.

| | | | | | | | | | | | |
|------|---|--------------|--|--------|----|------|---|--------------------|-------|--------|----|
| Mch. | 4 | To Cash..... | | 5, 187 | 50 | Mch. | 1 | By Brot. from..... | L. B. | 5, 187 | 50 |
| | | | | | | | | | | | |

A. H. Jones & Co.

| | | | | | | | | | | | |
|------|---|--------------------|-------|--------|----|------|---|--------------------|-------|--------|----|
| Mch. | 1 | To Brot. from..... | L. B. | 2, 509 | 00 | Mch. | 1 | By Brot. from..... | L. B. | 1, 000 | 00 |
| | | | | | | | 8 | " Bills Rec..... | | 1, 509 | 00 |
| | | | | 2, 509 | 00 | | | | | 2, 509 | 00 |

H. Wilson & Co.

| | | | | | | | | | | | |
|------|----|--------------------|-------|--------|----|------|----|--------------------|-------|--------|----|
| Mch. | 1 | To Brot. from..... | L. B. | 2, 696 | 37 | Mch. | 1 | By Brot. from..... | L. B. | 1, 375 | 00 |
| | 15 | " Mdse. Co. B..... | | 908 | 50 | | 15 | " Cash..... | | 750 | 00 |
| | 18 | " Mdse..... | | 995 | 50 | | 20 | " Cash..... | | 850 | 00 |
| | 28 | " Mdse..... | | 514 | 75 | | 27 | " Cash..... | | 500 | 00 |

W. H. Johnson & Co.

| | | | | | | | | | | | |
|------|----|--------------------|-------|--------|----|------|----|--------------------|-------|--------|----|
| Mch. | 1 | To Brot. from..... | L. B. | 2, 372 | 25 | Mch. | 1 | By Brot. from..... | L. B. | 1, 300 | 00 |
| | 16 | " Mdse..... | | 370 | 50 | | 18 | " Cash..... | | 450 | 00 |

E. H. Taylor & Co.

| | | | | | | | | | | | |
|------|----|--------------------|-------|--------|----|------|----|--------------------|-------|-----|----|
| Mch. | 1 | To Brot. from..... | L. B. | 2, 006 | 75 | Mch. | 1 | By Brot. from..... | L. B. | 750 | 00 |
| | 11 | " Mdse..... | | 174 | 75 | | 9 | " Cash..... | | 500 | 00 |
| | 22 | " Mdse..... | | 325 | 00 | | 25 | " Cash..... | | 500 | 00 |
| | 31 | " Mdse..... | | 805 | 50 | | 30 | " Cash..... | | 900 | 00 |

Fisher & Kellogg.

| | | | | | | | | | | | |
|------|----|--------------------|-------|--------|----|------|----|--------------------|-------|-----|----|
| Mch. | 1 | To Brot. from..... | L. B. | 1, 207 | 89 | Mch. | 1 | By Brot. from..... | L. B. | 157 | 39 |
| | 5 | " Mdse..... | | 79 | 90 | | 4 | " Cash..... | | 400 | 00 |
| | 19 | " Mdse..... | | 290 | 00 | | 21 | " Cash..... | | 300 | 00 |

First National Bank Stock.

| | | | | | | | | | | | |
|--------------|---|--------------------|-------|-------|----|--------------|--------|--------------------|-------|-------|----|
| 1890 Mch. | 1 | To Brot. from..... | L. B. | 6,250 | 00 | 1890 Mch. | 1 9 | By Brot. from..... | L. B. | 250 | 00 |
| | | | | | | | | " Real Estate..... | | 7,000 | 00 |

Shipment to Memphis.

| | | | | | | | | | | | |
|------|---|--------------------|-------|-----|----|------|---|--------------------|-------|-----|----|
| Mch. | 1 | To Brot. from..... | L. B. | 581 | 25 | Mch. | 1 | By Brot. from..... | L. B. | 697 | 50 |
|------|---|--------------------|-------|-----|----|------|---|--------------------|-------|-----|----|

P. H. Kelly & Co.

| | | | | | | | | | | | |
|------|--------|--------------------|-------|-------|----|------|--------------|--------------------|-------|-------|----|
| Mch. | 1 6 | To Brot. from..... | L. B. | 4,380 | 00 | Mch. | 1 5 26 | By Brot. from..... | L. B. | 1,227 | 50 |
| | | " Sundries..... | | 1,600 | 00 | | | " Cash..... | | 1,562 | 50 |
| | | | | | | | | " Cash..... | | 975 | 00 |

Donaldson & Co.

| | | | | | | | | | | | |
|------|---------------------|--------------------|-------|-------|----|------|---------------------|--------------------|-------|-------|----|
| Mch. | 1 13 20 29 | To Brot. from..... | L. B. | 2,482 | 74 | Mch. | 1 12 22 27 | By Brot. from..... | L. B. | 1,200 | 00 |
| | | " Mdse..... | | 880 | 50 | | | " Cash..... | | 600 | 00 |
| | | " Mdse..... | | 180 | 25 | | | " Cash..... | | 650 | 00 |
| | | " Mdse..... | | 366 | 15 | | | " Cash..... | | 450 | 00 |

Storage and Advertising.

| | | | | | | | | | | | |
|------|---|--------------------|-------|----|----|------|---|--------------------|-------|----|----|
| Mch. | 1 | To Brot. from..... | L. B. | 25 | 00 | Mch. | 1 | By Brot. from..... | L. B. | 15 | 00 |
|------|---|--------------------|-------|----|----|------|---|--------------------|-------|----|----|

Commission.

| | | | | | | | | | | | |
|--|--|--|--|--|--|------|---|--------------------|-------|----|----|
| | | | | | | Mch. | 1 | By Brot. from..... | L. B. | 41 | 87 |
|--|--|--|--|--|--|------|---|--------------------|-------|----|----|

Profit and Loss.

| | | | | | | | | | | | |
|--|--|--|--|--|--|------|---------|--------------------|-------|-----|----|
| | | | | | | Mch. | 1 27 | By Brot. from..... | L. B. | 59 | 06 |
| | | | | | | | | " C.S. Morey & Co | | 575 | 00 |

Sprague, Warner & Co.

| | | | | | | | | | | | |
|--------------|---------|--------------------|-------|-------|----|--------------|---------|--------------------|-------|-------|----|
| 1890 Mch. | 1 19 | To Brot. from..... | L. B. | 3,750 | 00 | 1890 Mch. | 1 26 | By Brot. from..... | L. B. | 5,575 | 00 |
| | | " Cash..... | | 1,825 | 00 | | | " Mdse..... | | 2,950 | 00 |

Expense.

| | | | | | | | | | | | |
|------|---------|--------------------|-------|-------|----|--|--|--|--|--|--|
| Mch. | 2 30 | To Brot. from..... | L. B. | 1,675 | 70 | | | | | | |
| | | " Cash for mo..... | | 681 | 30 | | | | | | |

Swift & Co.

| | | | | | | | | | | | |
|--|--|--|--|--|--|------|---|---------------------|--|--------|----|
| | | | | | | Mch. | 1 | By Mdse. Co. B..... | | 10,000 | 00 |
|--|--|--|--|--|--|------|---|---------------------|--|--------|----|

Merchandise Co. B.

| | | | | | | | | | | | |
|------|--------|--------------------|-------|--------|----|------|--------|--------------------|--|-------|----|
| Mch. | 1 1 | To Swift & Co..... | L. B. | 10,000 | 00 | Mch. | 4 6 | By Bills Rec..... | | 1,400 | 00 |
| | | " Cash..... | | 575 | 00 | | 15 | " P. H. Kelly & Co | | 950 | 00 |
| | | | | | | | 21 | " H. Wilson & Co | | 908 | 50 |
| | | | | | | | 27 | " Bills Rec..... | | 2,350 | 00 |
| | | | | | | | | " Bills Rec..... | | 3,050 | 00 |

C. S. Morey & Co., Denver, Col.

| | | | | | | | | | | | |
|------|---------|-----------------------------------|--|-------|----|--|--|--|--|--|--|
| Mch. | 1 25 | To Bills Payable, Shipm't to D | | 5,500 | 00 | | | | | | |
| | | " Profit and Loss | | 575 | 00 | | | | | | |

Mortgage Receivable.

| | | | | | | | | | | | |
|------|----|---------------------|--|-------|----|--|--|--|--|--|--|
| Mch. | 14 | To Real Estate..... | | 5,000 | 00 | | | | | | |
|------|----|---------------------|--|-------|----|--|--|--|--|--|--|

TRIAL BALANCE B. K. MARSHALL & CO., MARCH 30, 1890.

| NAMES. | L. F. | TOTALS. | | | | DIFFERENCES. | | | |
|---|-------|---------|----|---------|----|--------------------|----|--------|----|
| | | | | | | | | | |
| B. K. Marshall..... | | | | 25,000 | 00 | | | 25,000 | 00 |
| B. S. Knowlton..... | | | | 25,000 | 00 | | | 25,000 | 00 |
| Merchandise..... | | 67,579 | 05 | 69,658 | 70 | | | 2,079 | 65 |
| Cash..... | | 174,826 | 06 | 174,590 | 02 | 236 | 04 | | |
| First National Bank..... | | 104,383 | 28 | 65,368 | 60 | 39,014 | 68 | | |
| Freight..... | | 1,420 | 35 | | | 1,420 | 35 | | |
| Interest and Discount..... | | 482 | 77 | 1,405 | 97 | | | 923 | 20 |
| Real Estate..... | | 20,500 | 00 | 7,500 | 00 | 13,000 | 00 | | |
| Furniture and Fixtures..... | | 1,500 | 00 | | | 1,500 | 00 | | |
| Mortgage Payable..... | | 2,000 | 00 | 10,000 | 00 | | | 8,000 | 00 |
| Bills Payable..... | | 27,884 | 07 | 40,794 | 32 | | | 12,910 | 25 |
| Bills Receivable..... | | 22,147 | 40 | 11,261 | 60 | 10,885 | 80 | | |
| H. Wilson & Co..... | | 5,115 | 12 | 3,475 | 00 | 1,640 | 12 | | |
| W. H. Johnson & Co..... | | 2,742 | 75 | 1,750 | 00 | 992 | 75 | | |
| E. H. Taylor & Co..... | | 3,312 | 00 | 2,650 | 00 | 662 | 00 | | |
| Fisher & Kellogg..... | | 1,577 | 79 | 857 | 39 | 720 | 40 | | |
| First National Bank Stock..... | | 6,250 | 00 | 7,250 | 00 | | | 1,000 | 00 |
| Shipment to Memphis..... | | 581 | 25 | 697 | 50 | | | 416 | 25 |
| P. H. Kelly & Co..... | | 5,980 | 00 | 3,765 | 00 | 2,215 | 00 | | |
| Donaldson & Co..... | | 3,909 | 64 | 2,900 | 00 | 1,009 | 64 | | |
| Storage and Advertising..... | | 25 | 00 | 15 | 00 | 10 | 00 | | |
| Commission..... | | | | 41 | 87 | | | 41 | 87 |
| Profit and Loss..... | | | | 634 | 06 | | | 634 | 06 |
| Sprague, Warner & Co..... | | 5,575 | 00 | 8,525 | 00 | | | 2,950 | 00 |
| Expense..... | | 2,357 | 00 | | | 2,357 | 00 | | |
| Swift & Co..... | | | | 10,000 | 00 | | | 10,000 | 00 |
| Merchandise Co. B..... | | 10,575 | 00 | 8,658 | 50 | 1,916 | 50 | | |
| C. S. Morey & Co..... | | 6,075 | 00 | | | 6,075 | 00 | | |
| Mortgage Receivable..... | | 5,000 | 00 | | | 5,000 | 00 | | |
| | | 481,798 | 53 | 481,798 | 53 | 88,655 | 28 | 88,655 | 28 |
| Proof by Totals. | | | | | | Accounts Balanced: | | | |
| February Balance..... | | 348,142 | 13 | 348,142 | 13 | | | 5,187 | 50 |
| Posted from Journal to Mdse..... | | 12,575 | 00 | 6,952 | 80 | | | 2,509 | 00 |
| Posted from Journal to Sundries Acct... | | 45,195 | 30 | 50,817 | 50 | | | | |
| Posted from Cash to all accounts..... | | 41,755 | 25 | 41,827 | 35 | | | 7,696 | 50 |
| Posted to Cash..... | | 41,827 | 35 | 41,755 | 25 | | | | |
| | | 489,495 | 03 | 489,495 | 03 | | | | |
| Less accounts balanced during month... | | 7,696 | 50 | 7,696 | 50 | | | | |
| Trial Balance Sheet should foot | | 481,798 | 53 | 481,798 | 53 | | | | |

PROOF OF TRIAL BALANCE BY DIFFERENCES, MARCH 30, 1890.

| DEBIT SIDE. | INCREASE. | | DECREASE. | | CREDIT SIDE. | INCREASE. | | DECREASE. | |
|--------------------------|-----------|----|-----------|----|-------------------------|-----------|----|-----------|----|
| | | | | | | | | | |
| Trial Bal. February.... | 75,086 | 45 | | | Trial Bal. February... | 75,086 | 45 | | |
| Exchange Bk. Stock... | 1,000 | 00 | | | Exchange Bk. Stock.. | 1,000 | 00 | | |
| Credit Sales for mo..... | 6,952 | 80 | | | Credit Sales for mo... | 6,952 | 80 | | |
| Cash Bal. Increase..... | 72 | 10 | | | Cash Sales for mo..... | 6,053 | 40 | | |
| Bank Bal. Increase..... | 5,425 | 58 | | | Int. net recd. for mo.. | 125 | 13 | | |
| Freight for mo..... | 674 | 25 | | | Profit and Loss net | | | | |
| Expense for mo..... | 681 | 30 | | | recd. for mo..... | 575 | 00 | | |
| Mdse. Co. B. Cost..... | 10,575 | 00 | | | Swift & Co., Acct. | | | | |
| Shipment to Denver, | | | | | Mdse. Co. B..... | 10,000 | 00 | | |
| Cost and Profit..... | 6,075 | 00 | | | Bills Pay. Acct. Shipt. | | | | |
| | | | | | to D..... | 5,500 | 00 | | |
| Total Increase..... | 106,542 | 48 | | | Total Increase..... | 105,292 | 78 | | |
| Less recd. on acct. and | | | | | Less Paymts., Accts., | | | | |
| Bills Receivable..... | 17,887 | 20 | | | and Bills Payable... | 16,637 | 50 | | |
| Trial Bal. should foot.. | 88,655 | 28 | | | Trial Bal. should foot. | 88,655 | 28 | | |
| Receipts. | | | | | Payments. | | | | |
| Bills Receivable..... | | | 5,999 | 70 | Bills Payable..... | | | 9,625 | 00 |
| H. Wilson & Co..... | | | 2,100 | 00 | N. Y. Refining Co..... | | | 5,187 | 50 |
| W. H. Johnson & Co... | | | 450 | 00 | Sprague, W'ner & Co. | | | 1,825 | 00 |
| E. H. Taylor & Co.... | | | 1,900 | 00 | Total Paym'ts for mo. | | | 16,637 | 50 |
| Fisher & Kellogg..... | | | 700 | 00 | | | | | |
| P. H. Kelly & Co..... | | | 2,537 | 50 | | | | | |
| Donaldson & Co..... | | | 1,700 | 00 | | | | | |
| Real Estate..... | | | 2,500 | 00 | | | | | |
| Total Receipts for mo. | | | 17,887 | 20 | | | | | |

In this illustration the debit side is increased by the difference or profit made on exchange of bank stock for real estate, including the amount previously received for dividend and credited to the bank stock, as it represents an increase in the assets to that extent. The balance of Merchandise account being on the credit side, and having been so for the previous month, the debit side is increased by the credit sales for the month, as they represent the increase of assets for the month by the amount of increase in personal accounts due the business. The balance of cash and in bank being greater than at the close of the former month, the debit side is increased by the difference. In this instance the consignor is credited with the full amount of his shipment in Merchandise Co. B, instead of our share, as before, and the shipment not having been closed out, it creates an apparent asset for its cost, both in cash and credit, and consequently increases the debit side. The shipment on joint account not having been entered into the Merchandise account, and having been charged in full for its cost, and account sales having been rendered the net gain to the consignee, it constitutes an asset, and, therefore, increases the debit side.

The debit side is decreased, as before, taking into account the receipt of cash on real estate, the same as on accounts and Bills Receivable. The credit side is increased by the balance to the credit of bank stock, through the exchange for real estate and for the amount previously to its credit from dividend received. As it now shows an apparent liability, it is increased by the cash and credit sales of merchandise (the balance of that account being on the credit side for the previous and current month), as that account now shows an apparent liability; by the net amount received on Interest and Profit and Loss, as before; by the amount credited the consignee on account of shipment in Merchandise Co. B, as that becomes a liability, and by the liability created by the note given in settlement of the shipment on joint account, as that did not enter into the Merchandise account.

In the foregoing illustrations, while they have been made as full, varied and explicit as possible, it has not been possible to provide for all contingencies that may arise; but by remembering *that everything that goes to increase the assets, real or apparent, increases the*

debit side, and everything that diminishes them decreases it; also, that the credit side is increased by anything that increases the liabilities, real or apparent, and decreased by all that goes to diminish them.

By applying the above rule no difficulty will be found in making out the proof, no matter how complex and varied the accounts may be.

BALANCE SHEETS.

In connection with the transactions given, a balance sheet has been prepared, showing the state of the business at the close.

The closing entries have been omitted from the Ledger in order to avoid any confusion that might otherwise arise in regard to the trial balances and the methods used for proving the same.

The form of balance sheet used is believed to be the best for the purpose, as it shows in a concise and condensed form the state of the business; the assets and liabilities and what they consist of; the profit and loss and the source of the same; and each partner's net gain or loss and net capital invested in the business; is easily understood and explained.

The ruling of the trial balance books generally used will usually answer the purpose in making it out; if not, it is an easy matter to rule a blank sheet to meet the requirements of the case.

INVERSIONS OR TRANSPOSITIONS.

A very common error in posting or copying from one book or sheet to another is the inversion or reversal of figures, which may be determined by the difference or amount of error, as shown by the trial balance or the footings. If in copying from one book or sheet to another, if an inversion has occurred the difference will always be 9 or a multiple of 9, whose sum, when added together, will be 9.

If the difference should be 9, or any multiple up to 81, it shows that the first two, or right-hand, figures have been transposed. If 90 to 810, the second and third; 900 to 8,100, the third and fourth, and so on. If the difference consists of three or more figures, in which the ones intervening between the outside side ones are 9 or 9s, and the outside ones, when added together, make 9, it would indicate, if there be one 9 intervening, that the first and third figures of some amount had been transposed. If two 9s, the first and fourth, etc. If there should be ciphers on the right of the difference, it would show that the transposition had occurred one place further to the left for each cipher. In order to determine the figures so transposed, ignore the intervening 9 or 9s. As for instance, 486 written 684, the difference being 198, ignoring the 9, we have 18 as the difference between the outside figures transposed, and on reference to the appended table of possible transpositions, we find under 18 the sums 46 and 64, the figures transposed. In all cases of outside transposition the intervening figures will be 9; if any other figures intervene, even if their sum should be 9, it is not an outside transposition.

COMPOUND TRANSPOSITIONS.

Compound transpositions are where there has been two transpositions, either in the same amount or in different ones, but in different denominations, as one in dollars, the other in cents, or one in thousands and hundreds, and the other in tens and units.

They may be of two kinds: First, where both transpositions increase or diminish the original sum; the other, where one increases and the other diminishes it.

If they both increase or diminish the original sum, the difference will always show two sets of nines, that is, the two left hand-figures

will make 9 also; the two right-hand ones, the intervening figures (if any), will be ciphers, as 630,027 or 6,327. Taking no account of the ciphers, the two figures on the right and left respectively will show the difference in each inversion, and by reference to the table, all possible inversions with those figures will be found. If one inversion should increase and the other diminish the original amount, the difference will be a sum whose two right-hand figures, when added together, will be *ten*, and whose intervening ones (if any) will be 9s, and the sum of the whole a multiple of 9, and of the two left-hand ones *eight*.

To determine the difference for the first transposition, deduct the two right-hand figures from 100, which will give the difference for the first transposition; for the second, increase the two left-hand figures by one for the difference of the second; as if the difference or error should be 26,919, deducting 19 from 100 gives 81 as the difference or error for the first inversion. The left-hand figure (26) increased by one (27), the difference for the second inversion. The table under these differences gives all the inversions possible. In case there should be two transpositions in the sum, where they are made partly in the same column, as one in the tens and units and one in the hundreds and tens, to determine by the difference what the difference for each transposition is, and thus know what to look for. The difference will, in such cases, always consist of three figures, not counting any ciphers that may be on the right, as they serve only to indicate the columns in which the transposition has been made.

The rule is as follows, viz.: If they each increase or diminish the original sum, the difference will be made up of two amounts or differences, which, when added together, expressing one as tens and units and the other as hundreds and tens, will make the total difference, as these amounts range from 9 to 81, as seen in the table. One can tell at a glance what they are; as, for example: $\frac{3}{4} \frac{4}{6} \frac{2}{8} \frac{5}{1} = 8,106$ written $\frac{3}{4} \frac{2}{6} \frac{4}{1} \frac{5}{8} = 7,863$, their difference is 243. It will be seen by the table that 18 written 180, and 63 are the only differences that will make that sum; therefore, 18 is the difference for the transposition between the hundreds and tens, and 63 for that between the tens and units. Opposite those differences in the table will be found the sums 42, 24 and 81, 18. In cases where the middle figure is 9, it would

show that the difference for each transposition was the same, which will be shown by the outside figures; as if $\overset{4}{3}\overset{5}{2}\overset{8}{6}=8,507$ be written $\overset{4}{3}\overset{5}{2}\overset{1}{9}\overset{8}{6}=7,814$, the difference is 693, which shows that the sums transposed had each a difference of 63. If one of the transpositions increases and the other diminishes the original sum, the difference for each one will be found; for the first, or that between the hundreds and tens, by adding the first two or right-hand figures together, and prefixing the one on the left. The second, or one between the tens and units, by subtracting the original difference from 1,000, and adding the two left-hand figures of the result together, rejecting the ten (if any) in both cases, and annexing the right-hand figure, which will give the difference in each case, except in cases where the sum of the difference is 18; in that event, the left-hand figure should be increased by one for the first difference, and the left-hand figure of the second obtained by adding the two left-hand figures diminished by one. Examples: $\overset{2}{7}\overset{6}{1}\overset{4}{3}=5,327$ written $\overset{2}{1}\overset{6}{7}\overset{4}{3}=4,814$, their difference is 513; adding the two right-hand figures, $1+3=4$; prefixing the left-hand figure gives 54 for the difference for the transposition between the hundreds and tens, $1,000-513=487$; adding the two left-hand figures of this difference together, rejecting the ten of the result, $4+8=2$, annexing the right-hand figure gives 27 as the difference for the second transposition between the tens and units. Or, in the second event, $\overset{3}{4}\overset{2}{8}\overset{8}{6}=7,867$ written $\overset{3}{4}\overset{8}{6}\overset{2}{1}\overset{8}{8}=8,344$, whose difference, 477, being added together makes 18; therefore, the difference for the first transposition would be $7+7=4$; prefixing the left-hand figure 4 increased by 1=5, gives 54 as that difference. For the second transposition we have $1,000-477=523$; adding the two left-hand figures gives $5+2=7$, which diminished by 1=6, annexing the right-hand figure, gives 63 as the difference required.

Reference to the table will give the possible transpositions with those differences. In all cases of transpositions the first or right-hand figure of the difference will indicate the number of possible transpositions that can be made with that difference, and the first figure subtracted from 10 will give the first figure of the possible amounts that may be transposed to make the difference. Increasing the first figure by 11, until you have 9 for the right-hand figure, will, with their reversals, give all the possible combinations that can be transposed to make the difference; as, for instance, if the difference be 27

then it would show that there was seven possible combinations. Taking 7 from 10 gives 3 as the first figure; increasing by 11, gives 14, 25, 36, 47, 58, 69, as the only figures that can be reversed to make that difference.

The following table, prepared in accordance with the foregoing rule, gives all the possible combinations that may be transposed to make the differences, thus enabling you to see, at a glance, what figures to look for, without having to construct a table in each case:

TABLE.

| | | | | | | | | | |
|------------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| If the difference is 9..... | } 10 01 | 21 12 | 32 23 | 43 34 | 54 45 | 65 56 | 76 67 | 87 78 | 98 89 |
| If the difference is 18..... | } 20 02 | 31 13 | 42 24 | 53 35 | 64 46 | 75 57 | 86 68 | 97 79 | |
| If the difference is 27..... | } 30 03 | 41 14 | 52 25 | 63 36 | 74 47 | 85 58 | 96 69 | | |
| If the difference is 36..... | } 40 04 | 51 15 | 62 26 | 73 37 | 84 48 | 95 59 | | | |
| If the difference is 45..... | } 50 05 | 61 16 | 72 27 | 83 38 | 94 49 | | | | |
| If the difference is 54..... | } 60 06 | 71 17 | 82 28 | 93 39 | | | | | |
| If the difference is 63..... | } 70 07 | 81 18 | 92 29 | | | | | | |
| If the difference is 72..... | } 80 08 | 91 19 | | | | | | | |
| If the difference is 81..... | } 90 09 | | | | | | | | |

If the correct amount is the largest, the inverted figure will be found in the bottom row; if the least, in the top one.

The above table contains all the transpositions possible to be made with any given difference, and requires no further explanation.

MISPLACEMENTS.

Another very common and troublesome error is that of misplacement of figures,—that is, setting them down one or two places either to the right or left of their proper position, and thus increasing or diminishing the original sum; as, for instance, 27 set down or posted as 270 or 2,700, or *vice versa*,—an error that has heretofore been very difficult to determine, and then only by checking every item until found.

The following rules, which are original with the author, and have never before been published, will enable anyone to determine the exact figures in full (not a part) that have been misplaced or moved

one or more places to the right or left, thus avoiding the tedious process of checking over all the various items making up the sum, as you have the amount in full, giving every figure, and not a part, leaving you to guess and search for the remainder, as the best method heretofore in use does.

In misplacements, as in transpositions, the difference will always be 9 or a multiple of 9, with this difference, that in transpositions the sum of the difference will, when added together, always be 9, except as noted in cases of outside transposition, and then it holds good leaving out the intervening 9 as directed; but in misplacements the difference, when added together, will be 9 or a multiple of 9. If it should be 9, the chances are very strongly in favor of its being a transposition; but if it is a multiple, as 54, 63, etc., then it is certain that it is a misplacement, except in cases of compound transpositions as illustrated.

RULES.

1. Divide the difference or error by 9, which will give the exact sum that has been misplaced or moved one place to the left, which will be the case if the original or correct amount is the least; if it is greater, annex a cipher, which will give the amount moved one place to the right.

2. If the difference should consist of three or more figures, and it should prove that the result obtained by rule 1 is not the correct amount, then the error consists in moving the sum two places to the right or left. If the difference consists of three figures, subtract the first or right-hand figure from 10; the result will be the sum that has been moved two places to the left if the original amount was the least; if the largest, annex two ciphers for the correct amount.

3. If the difference consists of four figures, subtract the first two or right-hand figures from 100; the result will show the sum moved two places to the left, annexing two ciphers if it has been moved to the right.

4. If the difference consists of five figures, and the result obtained by rule 1 does not prove to be the correct one, then it must consist of a sum of three figures moved two places either to the right or left, unless the third figure from the right is a 9, in which

case a compound transposition may have been made instead of a misplacement. To determine the amount that has been misplaced set down the first two figures of the difference, add the first and third together, and place the unit of the result on the left of the first two, and subtract from 1,000; the result will give the amount, consisting of three figures moved two places to the left, annexing ciphers if to the right.

5. If the difference consists of six figures, set down the first two figures, add the first two and second two together, and place the first two figures of the result thus obtained on the left of the first two figures of the difference; subtract this amount from 10,000; the result will give the amount, consisting of four figures moved two places to the right or left.

6. If the difference consists of seven figures, proceed as in the previous rule for the first four figures of the result, and prefix the left-hand figure of the difference for the fifth and total, unless the sum of the fifth and sixth figures of the difference is ten or more, in which case increase the left-hand figure by one. (The left-hand figure is prefixed to the result after the first four figures are subtracted from 10,000.)

7. If the difference consists of eight figures, proceed as in rule 5 for the first four figures of the result, and prefix the two left-hand figures of the difference for the fifth and sixth figures and total amount misplaced or moved two places to the right or left.

In all misplacements of two places the difference will be divisible by 99, and the quotient will be the sum misplaced.

In all the foregoing rules, if the original sum is the largest, annex two ciphers to the result, which will then show the exact amount moved two places to the right.

It sometimes happens that two or more misplacements may have occurred. If this should be the case, and they should all have been moved the same number of places in the same direction, the result obtained by the rules will be the sum of the amounts so misplaced.

In case that one amount has been moved to the left and another the same number of places to the right, the result will show the difference between the two, considering them as of the same denomination, *i. e.*, dollars or cents, as 24.26 written 26.24. The

difference (1.98), by the rule for misplacements of two places, would give 2 as the difference between the sums transposed or misplaced, $26 - 24 = 2$.

In cases of compound misplacements or transpositions, where one amount or figure has been moved two places to the right or left and the other one in the opposite direction (they usually occur in one amount), the difference will indicate a sum which represents the difference between the sum moved two places, taken as having been moved first one place and then two, and a sum consisting of two figures moved one place. If the difference increases the original sum, the left-hand figure of the correct sum will be less than the right, except when the difference is 81, when the left-hand figure will be one greater. The reverse will be the case if the difference diminishes the original amount.

To find the correct amount divide the difference by 9. The quotient will give the difference between the sums moved, taken separately and considered as of the same denomination, as 256, written 625; difference, 369; dividing by $9 = 41$; $60 - 20 = 40$; $6 - 5 = 1$; $40 + 1 = 41$; or, what is the same thing, $66 - 25 = 41$. Therefore, we have to look for a sum in which, if the original sum is increased, and the left-hand figure annexed to itself and diminished by the next two on its right, will make the difference indicated. If the original amount is diminished the process would be reversed; that is, if 625 was written 562, then we would have a difference of $63 \div 9 = 7 - 62 - 55 = 7$. We would then have to look for a sum in which the left-hand figure annexed to itself and subtracted from the two on its right will equal the difference indicated. By transposing the figure moved two places to the right or left, as the case may be, the correct amount will be found. If, in dividing the difference by 9, the result should give a sum whose figures are the same, as 66, it would show that the figures on the right or left, according as the original was increased or diminished, were the same, as 22, making, in effect, an outside transposition, which can be found by the rule for such cases.

The foregoing rule will apply to all cases of transposition or misplacement from right to left, or *vice versa*, by using the figure transposed as many times as it has been moved places to the right or left.

In cases where the difference is 81, proceed as before, *i. e.*, 657 written 576; difference, $81 \div 9 = 9$; $66 - 57 = 9$. In such cases the correct sum will consist of an amount in which the outside figures will differ by 1, the middle figure will be one greater than 1, and two than the other, or less, according as the original amount has been increased or diminished.

In general, it may be stated that, in all cases of misplacements, the number of figures in the difference will be one greater than in the sum moved one place, and two greater than in the sum moved two places, not considering the ciphers to be annexed in cases where it has been moved to the right, thus enabling the accountant to determine at once how many figures are in the sum so moved and apply the proper rule to ascertain the exact amount.

In footing it frequently happens that owing to carelessness in setting down the various amounts, units are added as tens, or tens as hundreds instead of in their proper place. If such should be the case, the difference or error will be 9, or a multiple, as in inversions. If units have been taken as tens, the right-hand figure of the difference subtracted from 10 will give the figure so footed, and the difference divided by 9 the sum in which it occurred. If tens are taken as hundreds, the first figure of the difference will be a cipher; the second subtracted from 10 will give the figure wrongly footed, and the difference divided by 9 will give the figure so footed, and all to its left, thus enabling you to locate the error without difficulty. The same process will give the figure and sum in which it is to be found, if the error be reversed, as tens added as units, etc.

The following examples will serve to illustrate the foregoing rules and make them more easily understood. The first column represents the Cash Book, Journal, or other books from which postings may have been made to the Ledger. The adjoining columns represent the Ledger, the same amounts being posted to each, and a different error made in each one in order to illustrate the various inversions that may be made. Each example will be fully explained, showing how to find the error without having to check each item, it only being necessary to look for such figures as, being transposed, will make the error, which can be found by reference to the table or by the rule given in such cases:

TRANSPOSITIONS.

| CASH BK. OR JOURNAL. | | LEDGER. | | LEDGER. | | LEDGER. | | LEDGER. | | LEDGER. | | LEDGER. | | LEDGER. | | |
|----------------------------|-------|---------|----|---------|-----|---------|-----|---------|-----|---------|-------|---------|----|---------|----|----|
| 625 | 15 | 625 | 15 | 625 | 15 | 625 | 15 | 625 | 15 | 625 | 15 | 625 | 15 | 625 | 15 | |
| 437 | 82 | 437 | 82 | 437 | 82 | 437 | 82 | 437 | 82 | 437 | 82 | 437 | 82 | 437 | 82 | |
| 47 | 25 | 47 | 25 | 47 | 25 | 47 | 25 | 47 | 25 | 47 | 25 | 47 | 25 | 47 | 25 | |
| 61 | 00 | 61 | 00 | 61 | 00 | 16 | 00 | 61 | 00 | 61 | 00 | 61 | 00 | 61 | 00 | |
| 273 | 76 | 273 | 76 | 273 | 76 | 273 | 76 | 273 | 76 | 273 | 76 | 273 | 76 | 273 | 76 | |
| 7 | 64 | 7 | 64 | 7 | 64 | 7 | 64 | 7 | 64 | 7 | 64 | 7 | 64 | 7 | 64 | |
| 1,624 | 53 | 1,624 | 53 | 1,624 | 53 | 1,624 | 53 | 1,624 | 53 | 6,124 | 53 | 1,624 | 53 | 1,624 | 53 | |
| 84 | 52 | 84 | 52 | 84 | 52 | 84 | 52 | 84 | 52 | 84 | 52 | 84 | 52 | 84 | 52 | |
| 605 | 20 | 605 | 20 | 605 | 20 | 605 | 20 | 605 | 20 | 605 | 20 | 605 | 20 | 605 | 20 | |
| 184 | 00 | 184 | 00 | 184 | 00 | 184 | 00 | 184 | 00 | 184 | 00 | 184 | 00 | 184 | 00 | |
| | 95 | | 95 | | 95 | | 95 | | 95 | | 95 | | 95 | | 95 | |
| 36 | 04 | 36 | 04 | 36 | 04 | 36 | 04 | 36 | 04 | 36 | 04 | 36 | 04 | 36 | 04 | |
| 254 | 71 | 254 | 71 | 254 | 71 | 254 | 71 | 524 | 17 | 254 | 71 | 254 | 71 | 254 | 71 | |
| 2,758 | 16 | 2,758 | 16 | 2,758 | 16 | 2,758 | 16 | 2,758 | 16 | 2,758 | 16 | 2,758 | 16 | 2,758 | 16 | |
| | 85 | | 85 | | 85 | | 85 | | 85 | | 85 | | 85 | | 85 | |
| 3 | 20 | 3 | 20 | 2 | 30 | 3 | 20 | 3 | 20 | 3 | 20 | 3 | 20 | 3 | 20 | |
| 879 | 00 | 879 | 00 | 879 | 00 | 879 | 00 | 879 | 00 | 879 | 00 | 879 | 00 | 879 | 00 | |
| 45 | 61 | 45 | 61 | 45 | 61 | 45 | 61 | 45 | 61 | 45 | 61 | 45 | 61 | 45 | 61 | |
| 7,929 | 39 | 7,929 | 39 | 7,928 | 49 | 7,884 | 39 | 8,198 | 85 | 12,429 | 84 | 7,924 | 71 | 7,931 | 55 | |
| | | 7,929 | 39 | 7,929 | 39 | 7,929 | 39 | 7,929 | 39 | 7,929 | 39 | 7,929 | 39 | 7,929 | 39 | |
| Error | | | 27 | | -90 | | -45 | 00 | 269 | 46 | 4,500 | 45 | -4 | 68 | 2 | 16 |

EXAMPLE 1. The difference being .27, would show that there had been a transposition in the cents column. The right-hand figure shows that there are seven possible inversions that would make the error; 7 subtracted from 10 gives 3 as the first. By referring to the table, or constructing one according to the rule, we see at a glance what they are, and have only to look for those figures. As the error has increased the original sum, it shows that the amount sought will be found in the top row of the table. On examination we find three sums that the cents reversed would make the error, viz., .85, 84.52 and 47.52. By referring to the original we find the first two have been posted correctly. The third, 47.52, we find should have been 47.25, which, being corrected, will give the correct amount.

EXAMPLE 2. The difference being .90, would indicate that an inversion had been made between the dollars and cents column, and, as the original amount was the greatest, that the sum inverted would be found in the bottom row of the table. The ciphers on the right of the difference in cases of inversion only go to show in which columns the inversion has occurred; as, if there is one, it is between the second and third; if two, between the third and fourth, and so on.

In the example we find by the table that there are nine possible inversions. On examination we find 437.82, 1,624.53, 84.52, 2.30 and 45.61, to be the only sums in which a transposition of the dollars and cents would make the difference. By referring to the original for these amounts, we find them all correctly posted until we reach 2.30, which should have been posted 3.20.

EXAMPLE 3. The difference (45.00) shows that a transposition of the units and tens of dollars has been made, and as the original sum has been decreased, the amount transposed will be found in the bottom row of the table. On examination we find 16.00 the only amount that being transposed would make the difference, and, on referring to the original, find 61.00 has been posted 16.00.

EXAMPLE 4. The difference (269.46) indicates that either a misplacement or a compound transposition has been made. Applying the rule for misplacements, we find, that as the third figure is 9, it cannot be a misplacement of two places, but might be of one, which we find, if such had been made, would be 29.94 posted as 299.40. On examination, we find we have no such an amount. Therefore it must be a compound transposition. As the first two figures of the difference make 10 when added together, it shows that it is a compound transposition, where one increases and the other diminishes the original sum. Deducting the two right-hand figures of the difference (46) from 100, gives 54 as the difference for the first or right-hand transposition; increasing the two left-hand figures (26) by 1 gives 27 as the difference for the second. On referring to the table under 54, we find 437.82 and 524.17 as the only amounts that the cents could be reversed to make that difference. In the same way, under 27, we find 524.17, as the only amount in which the tens and hundreds of dollars reversed would make the difference (the 9 in the units place of the dollars shows that the transposition has been made in the tens and hundreds), and, on examination, we find 254.71 has been posted 524.17. If the transpositions had occurred in different items, we should have had to look for each transposition separately, as in this case the 17 would be found in one item and the 520.00 in another.

EXAMPLE 5. The difference (4,500.45) shows that either a misplacement or a compound transposition has been made. We find by the rules that the only misplacement that could be made with

this difference is 500.05, posted 5,000.50, and as we have no such an amount, it must be a compound transposition, in which the original sum is increased in both cases. The first two figures on the right indicate that a transposition has been made in the cents column, whose difference is 45, and as there are two ciphers intervening, one in the hundreds and thousands of dollars, whose difference is also 45; on reference to the table we find 45.61 and 2,758.61 as the only sums whose cents being transposed would make the difference. On examination of these amounts we find that 2,758.61 should have been posted 2,758.16. In the same manner in the hundreds and thousands of dollars we find 6,124.53 and 2,758.61 as the amounts in which a transposition of the dollars would make the difference, and, on referring to the original, find 1,624.53 posted as 6,124.53. Making the proper correction in each case the accounts will balance.

EXAMPLE 6. In this example the difference (4.68) would indicate a misplacement, which, as the original sum is decreased, we find would be 5.20 written .52. On examination we find we have not that amount in the original. We must, therefore, look for some other error. There being three figures in the difference, would also indicate that there had been two transpositions. On applying the rule for such cases, we find .45 written 4.50, and .18 added together will make the difference; and, on looking for transpositions whose differences are 45 and 18, find that 47.25 has been posted 42.75, and that 7.64 has been posted 7.46.

EXAMPLE 7. In this example a misplacement of .24, written 2.40, would make the difference (2.16); but not having that amount, look further; .18 written 1.80, and .36, would also make the difference. On examination we find that there is no sum in which a transposition between the tens of the cents and units of the dollars is possible with a difference of 18; therefore, we conclude that it must be a case where one transposition increases and the other diminishes the original sum, and made partly in the same column; and, as in this case the total is increased, the one increasing must be between the units of dollars and tens of cents, and the one diminishing in the cents column. Applying the rule to ascertain the differences, we have, adding the two right-hand figures together, $1+6=7$. Prefixing the left-hand one (2), gives 27 as the difference for the first trans-

position between the units of dollars and tens of cents. For the second difference we have $10.00 - 2.16 = 7.84$; adding the two left-hand figures together, rejecting the 10, we have $7 + 8 = 5$; annexing the right-hand figure (4) gives 54, the difference required; and, on examination, we find 254.71 posted 257.41; difference, 2.70; or, what is the same, 27, as the cipher only indicates that the transposition has been made between the tens and hundreds. We also find that 437.82 has been posted 437.28, with a difference of .54.

EXAMPLE 1. The difference (4.95) may be made in several ways. First—By the transposition of the outside figures of some number consisting of three figures, whose difference, when transposed, would be 45. On examination we find that there is no sum which, being transposed, would make the difference. Second—A misplacement of some amount moved two places to the right, as the original sum is the largest. Applying the rule for such cases, we have $1.00 - .95 = .05$. Annexing two ciphers gives 5.00 as the sum which, if posted .05, would make the difference. As we do not find that amount, it must be some amount moved one place to the right; $4.95 \div 9 = .55$, which on examination we find should have been posted 5.50.

EXAMPLE 2. On applying the rule for a misplacement of two places, we find it could not be made with the given difference (16.56). On dividing it by 9, we have 1.84, and, as the original sum is the least, shows that 1.84 has been posted as 18.40, which, on examination, proves to be correct.

EXAMPLE 3. On applying the rule for a misplacement of one place, by dividing the difference by 9, we have 8.25, which, as the original sum is the least, would show that 8.25 had been posted as 82.50. But, as we do not find that amount, it must be a misplacement of two places to the left. By the rule we have, subtracting the first two figures of the difference from $1.00 - .25 = .75$, which we find to have been posted 75.00.

EXAMPLE 4. In this example we find that a misplacement of one place of 35.75, posted as 357.50, would make the difference of 321.75. But, as we do not find such an amount, it must be one of two places. To determine the amount so misplaced by the rule, we have, setting down the first two figures of the difference (75), and adding the first and third together, $1 + 5 = 6$, and placing it on the left of the first two $= 6.75$, which being subtracted from 10.00 gives 3.25, which we find should have been posted 325.00.

EXAMPLE 5. In this example the difference (4,515.39) would indicate that a misplacement of either one or two places had been made. On applying the rule for one place we have 501.71 as the amount which, if moved one place to the left, would make the difference. As we do not find that amount, it must be one of two places. Applying the rule to determine the amount of such misplacement,

and setting down the first two figures of the difference (39), and adding the first two figures and the second two together we have $39 + 15 = 54$, which, placed on the left of the first two and subtracted from $100.00 - 54.39 = 45.61$, which we find, on examination, has been posted 4,561.00.

EXAMPLE 6. On applying the rule for a misplacement of one place in this example, we have 2,801.81 as the amount which would, if so misplaced, make the difference (25,216.29). Not having such an amount we know it must be one of two places, which we proceed to determine by the rule. Setting down the first two figures of the difference (29) and adding the first two figures and the second two together, $29 + 16 = 45$, which, being placed on the left of the first two, gives 45.29, which, being subtracted from $100.00 = 54.71$; and as the sum of the fifth and sixth are less than ten, we place the left-hand figure of the difference on the left of this amount for the total of the sum misplaced $= 254.71$, which we find has been posted 25,471.00.

EXAMPLE 7. In this example we find that 30,636.76, if moved one place to the left, would make the difference (275,730.84); but not having that amount must look for one of two places. Proceeding as in the previous example, setting down the first two figures (84) and adding the first two and second two, $84 + 30 = 114$, and placing the first two figures of this result on their left gives 14.84, which, being subtracted from $100.00 = 85.16$; prefixing the two left-hand figures of the difference to this sum gives 2,785.16, which we find has been posted 278,516.00.

EXAMPLE 8. In this example we find, on applying the rule for a misplacement of one place, we have 160.82 as the sum which would make the difference (1,447.38) if carried one place to the left, and as we do not find either that amount or any whose sum would be equal to it, we proceed to look for one of two places, which we find would be 14.62, posted as 1,462.00. Not finding that amount, we then look for two or more amounts whose sum would be 1,462.00. On examination we find 864.00 and 598.00 as the only ones whose sum equals that amount, and that they should have been posted 8.64 and 5.98, respectively.

EXAMPLE 9. The difference in this example (1.80) would indicate that it was either a transposition between the dollars and cents

columns, a misplacement, or an error in footing by adding the tens of cents in the units of dollars. On looking for a transposition we find, as the original is the least, that there is no amount which could be transposed to make it. We also find that .20 posted as 2.00 would make the difference. But not finding such an amount, and there being no sum which could be moved two places to the left that would make it, we then look for an error in footing, which we find by the rule would be 2 in the tens of cents column footed as 2 in the units of dollars. On examination we find that such is not the case. We therefore, as a last resort, must look for a misplacement in which one amount has been moved to the right and one to the left. As there is no amount which, being moved two places, would make the difference, it must be of one place. Applying the rule for a misplacement of one place, we have $180 \div 9 = 20$, which shows that some amounts whose difference is 20 when considered as of the same denomination, have been moved, one to the right and one to the left. On examination we find that .55 and 7.50 are the only ones whose difference is 20, *i. e.*, $75 - 55 = 20$, and on reference to the original entries find that they should have been posted 5.50 and .75.

EXAMPLE 10. The difference in this example (360.00) would indicate that either a misplacement, transposition or an error in footing had occurred. If a misplacement, 40.00 posted as 400.00 would make it. Not having that amount, we look for a transposition between the tens and hundreds of dollars, and, on examination, fail to find any amount which could be so transposed. We must, therefore, look for some figure that has been footed in the hundreds of dollars instead of the tens. Deducting the first figure of the difference (not counting the cipher on the right) from 10 gives $10 - 6 = 4$ as the figure so footed, and on examination we find that, owing to carelessness in posting, 47.25 has been footed as 407.25.

In this connection, and in order to more fully illustrate the almost marvelous powers of the NINES, the following rules for finding the amount of the error, when the sum has been moved one place to the right or left, in addition to the one previously given, are appended:

RULES.

1. If the difference consists of three figures, set down the first or right-hand figure, add the first and second together, and place the unit of the result on the left of the first. Subtract the sum thus obtained from 100 and the result will show the amount that has been moved one place to the left if the difference shows that the original or correct sum is the least. If the difference shows that it is greater, place a cipher on the right of the result. It will then show the amount that has been moved one place to the right.

2. If the difference consists of four figures, proceed as before for the first two figures of the subtrahend. For the third add the first three figures together, carrying one. If the sum of the first two was 10 or more, set down the unit of the sum thus obtained on their left and subtract from 1,000 for the desired amount, annexing a cipher if the difference is less than the correct sum.

3. If the difference consists of five figures, proceed as before for the first three figures of the subtrahend. For the fourth, add the first four figures together, carrying 1 if the sum of the first three is 10 or more, 2 if 20 or more, and place the unit of the result on the left and subtract from 10,000. Proceed in like manner for any number of figures in the difference, remembering to set down only the unit of each addition, and to carry 1 to the next for each 10 in the previous results.

As before noted, the difference, where the sum has been moved one place, will always contain one more figure than the original sum moved to the left, and the same number if moved to the right.

Example 1.

| | | | |
|-----------------|-------|--|-----|
| 2567 | 2567 | Set down first figure of difference..... | 8 |
| 52 | 520 | | |
| 5276 | 5276 | Add first two together, $8+6=14$, placing unit on | |
| 728 | 728 | the left, equals..... | 48 |
| 827 | 827 | | |
| <hr/> | <hr/> | | |
| 9450 | 9918 | | |
| | 9450 | Subtracting from..... | 100 |
| <hr/> | <hr/> | | |
| Difference, 468 | | The sum misplaced..... | 52 |

Example 2.

| | | | |
|-------------|-------|--|------|
| 4728 | 4728 | Set down first figure of difference..... | 6 |
| 8247 | 8247 | | |
| 384 | 3840 | Add first two, $5+6=11$, placing unit on left, equals | 16 |
| 1927 | 1927 | | |
| 256 | 256 | Add first three, $4+5+6+1$, carrying 1, equals..... | 16 |
| 15542 | 18998 | | |
| | 15542 | Placing unit on left, equals..... | 616 |
| Difference, | 3456 | Subtracting from..... | 1000 |
| | | The sum misplaced..... | 384 |

Example 3.

| | | | |
|-------------|--------|--|-------|
| 15038 | 15038 | Set down first figure of difference..... | 4 |
| 7406 | 74060 | | |
| 34971 | 34971 | Add first two, $5+4$, unit on left, equals..... | 94 |
| 894 | 894 | | |
| 6708 | 6708 | Adding first three, $6+5+4$, unit on left, equals..... | 594 |
| 65017 | 131671 | | |
| | 65017 | Adding first four, $6+6+5+4+1$, carrying 1, placing unit on the left..... | 2594 |
| Difference, | 66654 | Subtracting from..... | 10000 |
| | | The sum misplaced..... | 7406 |

DROPPED FIGURES.

It frequently happens that in transferring figures from one sheet or book to another a figure is dropped or omitted from some one of the amounts, or that, owing to carelessness in setting down the sum, in footing, some figure is omitted or footed in the wrong place, as units with tens, or *vice versa*. The error thus occasioned has heretofore been very difficult to determine, except by the tedious process of checking all the various items going to make up the sum or account, as the difference, except when a 9 or 0 has dropped, does not indicate an inversion or misplacement, which it to a certain extent is; that is, it moves all the figures to the left of the one dropped one place to the right. The difference or error will always be less than the original or correct amount. The following rule, original, and never before published, will enable anyone to determine, not only the *exact figure* that has been dropped, but its exact position in the sum from which it has been dropped; *i.e.*, units, tens, hundreds

or thousands, *also, all the figures* (if any) *to its left*. Thus giving, if the dropped figure should be the unit, the *exact amount* to be looked for, and in any case the dropped figure and all to its left.

RULES.

The position of the dropped figure is determined by the number of ciphers on the right of the difference. If there are none, the unit has been dropped; if one, it is in the tens, if two, in the hundreds, and so on.

To determine the *exact figure* and those on its left, divide the difference (omitting the ciphers, if any on the right) by 9, and to the result annex the remainder, which will give the *exact sum*, including the dropped figure to the left of the ciphers, the remainder being the figure dropped. If there are no ciphers in the difference, the result will be the sum in full. In all cases where a 9 or a 0 has been dropped, the difference, when divided, will have no remainder. If 9 has been dropped, the figure to the left of the remainder, which will be a 0, will be one greater than the correct one; by deducting 1 from that figure and annexing 9, the correct result will be obtained. If a 0 has been dropped, the result will be correct by annexing a 0 to the quotient.

The following examples are given to illustrate the rule:

Example 1.

$$\begin{array}{r} 37,856 \\ \underline{3,785} \\ 9)34,071 \end{array}$$

3,785-6 remainder, the figure dropped.

There being no ciphers on the right of the difference indicates that the unit has been dropped; annexing it, we have 37,856, the correct amount.

Example 2.

$$\begin{array}{r} 37,856 \\ \underline{3,786} \\ 9)3,407(0 \\ \underline{378-5} \end{array}$$

There being one cipher on the right of the difference shows that a figure in the tens has been dropped. Annexing the remainder (5) to the quotient, we have 3,785, the figure dropped, and all to its left. In the same manner, if there should be two ciphers on the right of the difference, the result will give the dropped figure and all to its left.

The following examples will illustrate the dropping of a 9 or 0:

Example 1.

$$\begin{array}{r} 42,569 \\ 4,256 \\ \hline 9)38,313 \\ \hline 4,257 \end{array}$$

Deducting 1=4,256, annexing 9=42,569, the correct amount.

Example 2.

$$\begin{array}{r} 382,507 \\ 38,257 \\ \hline 9)34,425(0 \\ \hline 3,825 \end{array}$$

Annexing a cipher gives 38,250 as the figure dropped and all to its left.

In cases where, in footing, a figure has been omitted in the footing, but is set down correctly in the sum, the difference will consist of one figure in the place from which it was omitted, *i. e.*, units or tens, and will be the figure so omitted; the ciphers on the right indicating its position in the sum; but, as often occurs in setting down an amount in a long column of figures, a sum may be so placed that one figure is omitted and the others footed in the wrong position, as hundreds with tens, the sum from which it is omitted and misfooted can be determined by the rule for dropped figures, if the figures to the left of the one dropped are footed in the columns to the right of their proper position. If, however, the figures to the left of the one dropped should be so placed that they are footed in the columns to the left of their proper position, then, to determine the correct sum and the figure dropped, divide the difference by 9; the result will be a sum terminating in 9 (except when the dropped figure is a 0, in which case it becomes a misplacement and the terminal 0), and a remainder, unless the figure dropped is 9; if that should be the case there will be no remainder. By dropping the terminal 9, and increasing the figure to its left by 1, the correct figures to the left of the one dropped will be found, and subtracting the remainder found by the division from 9, will give the figure dropped.

Example 1.

| | | |
|-------|----|------------------------|
| 278 | 5 | |
| 56 | 4 | |
| 23 | 46 | Dropping the 4. |
| 82 | 5 | |
| <hr/> | | |
| 6,520 | | Correct footing. |
| 6,480 | | Footing made in error. |
| <hr/> | | |
| 40=4 | | the figure dropped. |

Example 2.

| | | |
|---------|----|------------------------|
| 278 | 5 | |
| 56 | 4 | |
| 23 | 46 | |
| 82 | 5 | |
| <hr/> | | |
| 6,520 | | Correct footing. |
| 4,410 | | Footing made in error. |
| <hr/> | | |
| 9)211(0 | | |

23-4=234, the sum including the dropped figure, and all to its left in which the error is made.

Example 3.

| | | |
|-------------------|-----|------------------------|
| 27 | 85 | |
| 5 | 64 | |
| 23 | 4 6 | |
| 8 | 25 | |
| <hr/> | | |
| 27,180 | | Footing made in error. |
| 6,520 | | Correct footing. |
| <hr/> | | |
| 9)2,066(0)(229-5. | | |

Dropping the 9, and increasing the figure to its left by 1=23; for the figures to the left of the one dropped, 9-5=4, the dropped figure; 234, the sum from which it was dropped.

Example 4.

| | | |
|----------------|-----|------------------------|
| 48 | 75 | |
| 3 | 9 7 | |
| 29 | 45 | |
| 6 | 21 | |
| <hr/> | | |
| 11,448 | | Footing made in error. |
| 8,838 | | Correct footing. |
| <hr/> | | |
| 9)261(0)(29-0. | | |

Dropping the 9 and increasing the figure to its left by 1=3; for the figure to the left of the one dropped, 9-0=9, the dropped figure; 39, the sum from which it was dropped and the misplacement to the left made.

In case two figures have been dropped or omitted from any sum, and they adjoin each other, the first, or right-hand figure dropped will be the one to the left of the ciphers on the right (if any) in the difference. To ascertain what are the dropped figures and those to their left, divide the difference (omitting the ciphers) by 99; the quotient will be the figures to the left of the ones dropped, and the remainder will be the dropped figures, which, being annexed to the quotient, will give the full sum, except as to the figures on the right of those dropped.

Example.

374,563

3,743

Dropping the 5 and 6 gives a difference, which, divided by 99)37,082(0)(=374-56=37,456, the full sum, except the right-hand figure; if the two right-hand be dropped, the result will be the sum in full.

In cases where two figures have been dropped, but not adjoining each other, the full sum can be found, except as to the figures to the right of the first or right-hand figure dropped. It is not claimed that this method, where two figures, not adjoining, have been dropped, will be of much practical value, as there is no means of determining the position in the sum of the left-hand figure dropped, but that being known, the rest can readily be found. The rules for obtaining this result are appended, more as a mathematical curiosity and source of amusement than from any hope of its being of any practical value in the detection of errors. The only rule for determining what figure had been dropped from any sum, heretofore published, only enabled you to say what the dropped figure was, but did not determine its position in the sum, or give any of the other figures composing the sum from which it was dropped, and therefore was of no practical value in the detection of errors arising from that source, and only applied to one figure. No attempt, so far as known, has ever been made to determine what the figures were, when more than one had been dropped, heretofore; still less to determine the exact sum from which it has been dropped, to the left of and including the right-hand figure dropped.

RULE.

The first or right-hand figure will be indicated as before; therefore, it will be necessary that you should be informed as to the position in the sum of the left-hand figure dropped, in addition to the difference.

1. If there be an interval of one figure between the figures dropped, divide the difference (rejecting the ciphers on its right) by 99, until you have found the left-hand figure dropped, which will be the right-hand figure of the quotient. The remainder, if of two figures when added together, will be the sum of the figures dropped. Deducting the one found will give the other, or right-hand figure. Place this on the right of the sum obtained by the division, leaving an interval for the remaining figure. From this figure (adding 10, if necessary) subtract the right-hand figure of the difference. Place the result in the interval and you will have the complete sum except as to any figures to the right of the second or right-hand figure dropped.

Example.

$$\begin{array}{r} 384,765 \\ \underline{3,875} \end{array} \quad \text{Dropping 4 and 6}$$

Difference divided by 99)380,89(0)(384-73. $7+3=10-4=6$, the second or right-hand figure dropped. Placing it on the right of the quotient, leaving an interval of one place=384 6; deducting the right-hand figure of the difference from this figure, increased by 10= $16-9=7$, for the remaining figure, which, being placed in the interval, gives 38,476 + the desired sum except the right-hand figure.

2. If there should be an interval of two figures, proceed in the same manner until the first figure has been found, which you will know by having been previously informed either of its position in the sum or of the number of places intervening. If the sum of the remainder exceeds 18, deduct 9; the result will be the sum of the dropped figures. Deducting the first as before will give the other. Placing it on the right of the quotient, leaving an interval of two places, from the second or right-hand figure dropped, adding 10, if necessary. Subtract the first figure of the difference for the right-hand figure of the interval, from this figure, carrying as in ordinary subtraction. Deduct the second figure of the difference for the remaining figure.

Example.

$$\begin{array}{r} 347,865 \\ 3,785 \\ \hline \end{array}$$

34,408(0)(34—748=19—9=10—4=6, the second figure dropped; placing it on the right of the quotient, leaving an interval of two places=34 6; subtracting the first figure of the difference, as before, we have 16—8=8 as the right-hand figure of the interval; subtracting from this figure the second figure of the difference (0), carrying 1, 8—1=7 for the second figure of the interval; placing them in their proper place, gives the sum from which the figures were dropped, 34,786.

3. If there should be an interval of three figures, proceed as before until the first figure is found. If the remainder, which will consist of four figures, contains a cipher and their sum exceeds 9, deduct 9 for the sum of the dropped figures. If the first three or right-hand figures of the remainder equal 9, the left-hand figure will be the sum of the dropped figures. If the sum of the remainder be less than 18 and the sum of the first three is less than 9, it will be the sum of the dropped figures. If the sum is 18 or more, deduct 9; if 27, deduct 18, proceeding as before to fill the first two places. Place the left-hand figure of the difference in the third place.

Example.

$$\begin{array}{r} 835,674 \\ 8,567 \\ \hline \end{array}$$

99)827,107(83—5,407=16—9=7—3=4, the second figure dropped; filling the interval gives the full sum, 835,674.

If the interval between the dropped figures is four places, the remainder will contain five figures. If their sum exceeds 18 and there is a cipher in the remainder, deduct 9 for the sum of the dropped figures. If there should be two ciphers, the sum of the remainder will be the sum of the dropped figures unless it exceeds 18, in which case deduct 9. If the sum of the first four figures of the remainder is 9, the left-hand figure will be the sum of the dropped figures. If the remainder contains no ciphers and its sum exceeds 18, deduct 18; if 27 or more, deduct 27, filling the intervals for three places by subtracting the difference, as in Example 1. Place the left-hand figure of difference in fourth place, unless the one to its right be a 9; if so, increase it by 1.

Examples.

$$\begin{array}{r} 385,647 \\ 8,564 \\ \hline \end{array}$$

second figure. $99)377,083(3-80,083=19-9=10-3=7$, the

$$\begin{array}{r} 384,765 \\ 8,476 \\ \hline \end{array}$$

second figure dropped. On the same principle the sum can be found for any number of intervals. $99)376,289(3-79,289=35-27=8-3=5$, the

STOCK COMPANIES.

The tendency nowadays seems to be toward the formation of stock companies for the conduct of all kinds of large business operations, as it affords better facilities for conducting and settling the same, as it avoids all the complications and settlements which attend or follow the withdrawal or death of a partner. As the duties of the active members or officers are usually fully defined, either in the articles of incorporation or by-laws, there is, or need be, no conflict or clash in conducting the business, as each officer has his own specific duty to perform and is accountable for the same; the general policy and management being usually vested in a board of directors and its president.

In case one of the stockholders desires to withdraw or dies, it does not involve a settlement or winding up of the whole business to ascertain or settle his interest, as his stock represents that, and may pass from one person to another without affecting in any manner the business of the company, which only dies by limitation, insolvency, or by a majority vote of the stockholders to wind up its affairs.

The laws governing the formation, conduct of and liabilities of stock companies vary in the different states, and should be consulted before forming such companies, in order to comply with their requirements.

When it has been determined to organize a stock company for any purpose, the first step necessary is to draw up articles of incorporation, defining the purpose and objects for which such company is formed and such other matters as may be required by the laws of the state in which it is formed; also, specifying such other things

as the incorporators may deem necessary, such as the capital stock, the number and value of the shares, the terms and manner of paying for the same, duration of the company, officers for conducting the business and defining their duties, and providing for the adoption of by-laws for the government of the company and its officials, etc., which should be filed for record and authority to do business with the officer provided by law—usually the secretary of state.

Stock companies may be organized in several ways. First—With the full amount of the capital stock paid in full before commencing business. Second—With the stock to be paid for in installments at certain specified times. Third—The stock to be paid for by assessments made from time to time, as may be required to conduct the business. Fourth—With a specified amount or percentage of the nominal capital paid in, for which certificates of stock at their par value are issued.

STOCK BOOKS.

In forming or organizing stock companies, either for a general or specific purpose, in which it is intended to dispose of the stock to all who may wish to invest in the enterprise, the first book necessary is a Stock Subscription Book, which should contain a heading setting forth the name and purpose of the company, the amount of the capital stock, the number of shares and their par value, the conditions and terms of the subscriptions, and an agreement that the subscribers will take the number of shares set opposite their names and comply with all the conditions of the sale of the stock.

The other books required, in addition to the ordinary books used in the transaction of the business, are a Stock Ledger, Journal and Cash Book. On the Journal an entry should be made debiting each person with the number of shares for which he has subscribed and value of the same at the par value, and giving Capital Stock credit for the total. If the stock is paid in full, an entry should be made on the Stock Cash Book, giving Stock credit for the same, and one debiting the company in its corporate name for the same.

In case of companies where assessments are levied, each person should be charged with number of shares and par value of their subscriptions, and Capital Stock credited as before. When an assessment is levied, each person should be debited with the amount

of such assessment, and Stock account credited; and, when paid, each person should be credited with the amount on the Stock Cash Book, and the company debited with the same.

In cases where the capital stock is sold or issued at a specified amount or percentage, each subscriber should be debited as before, and Capital Stock credited. They should also be debited with the actual value or amount to be paid for such stock, and the same credited to Stock account, payments to be treated as in the other cases. When a stockholder desires to transfer his stock, or any portion thereof, he should be credited on the Stock Journal with the number of shares so transferred and the amount of the same at its par value, and the purchaser debited with the same.

In case the capital stock is increased, it should be treated in the same manner as the original issue.

The Capital Stock account will always show the amount of the subscribed capital, and the individual accounts the number of shares and amount held by each person.

The illustrations will show the mode of procedure in each case.

The General Ledger contains all matter appertaining to the general business of the company, the assets and liabilities, and all transactions, as in any ordinary business, and is kept independent of the Stock Ledger.

The General Ledger should be opened by crediting Stock account with the amount of the paid capital on the General Cash Book. If the stock should be paid for in merchandise, real estate or other property, the amounts so paid should be debited to their accounts instead of cash.

ILLUSTRATION 1.—CAPITAL STOCK FULLY PAID UP.

STOCK SUBSCRIPTION BOOK.

The St. Paul Investment Company, having been organized for the transaction of a General Business, with a paid up capital of \$150,000, in Shares of \$100 each, we, the undersigned, hereby agree to take and pay for the number of Shares, in Cash, set opposite our names.

| DATE. | | NAMES. | No. OF SHARES. | AMOUNT. | |
|---------|---|----------------------|-------------------|---------|----|
| 1890 | | | | | |
| Jan ... | 2 | A. K. Marshall..... | 150 | 15,000 | 00 |
| | | B. K. Marshall | 250 | 25,000 | 00 |
| | | H. P. Upham..... | 250 | 25,000 | 00 |
| | | Gustav Willius | 250 | 25,000 | 00 |
| | | J. J. Hill..... | 300 | 30,000 | 00 |
| | | Thos. F. Oakes | 300 | 30,000 | 00 |
| | | | 15,000 | 150,000 | 00 |

The Journal entry would be:

| | | | | | | | |
|---------|---|--|-------------------------------------|--------|-------|---------|----|
| 1890 | | | | | | | |
| Jan ... | 2 | | Sundries Dr. to Capital Stock..... | | | 150,000 | 00 |
| | | | A. K. Marshall, for 150 Shares..... | 15,000 | 00 | | |
| | | | B. K. Marshall, for 250 Shares..... | 25,000 | 00 | | |
| | | | H. P. Upham, for 250 Shares..... | 25,000 | 00 | | |
| | | | Gustav Willius, for 250 Shares.... | 25,000 | 00 | | |
| | | | J. J. Hill, for 300 Shares..... | 30,000 | 00 | | |
| | | | Thos. F. Oakes, for 300 Shares... | 30,000 | 00 | | |

On the Stock Cash Book an entry should be made as follows :

| Dr. | | CASH. | | CASH. | | Cr. |
|--------------|---|---|--------------|-------|--|---------|
| 1890 Jan. | 2 | To Stock, for amount received for subscriptions to the Capital Stock from the following: | 1890 Jan. | 2 | By St. Paul Investment Co., for amount of paid up subscriptions to the Capital Stock. | |
| | | A. K. Marshall.....25,000.00 | 150,000 | | | 150,000 |
| | | B. K. Marshall.....15,000.00 | | | | |
| | | H. P. Upham.....25,000.00 | | | | |
| | | Gustav Willius.....25,000.00 | | | | |
| | | J. J. Hill.....30,000.00 | | | | |
| | | Thos. F. Oakes.....30,000.00 | | | | |
| | | | 150,000 | | | 150,000 |
| | | | 00 | | | 00 |

ILLUSTRATION 2.—CAPITAL STOCK TO BE PAID IN ASSESSMENTS, AS REQUIRED.

STOCK SUBSCRIPTION BOOK.

The Good Luck Mining and Milling Company having been organized for the purpose of buying, selling, operating and developing mines, and erecting and operating mills for the reduction of minerals, the purchase and sale of ores, the purchase and sale of real estate, and the transaction of such other business as may be necessary, with a subscribed capital of \$1,000,000, in shares of \$100 each, to be paid for in installments, as required, after the first, which shall be 25 per cent, payable within 30 days from the date of the subscription, we, the undersigned, hereby agree to take and pay for the number of shares set opposite our names, on the terms and conditions above set forth:

| DATE. | | NAMES. | NO. OF SHARES. | AMOUNT. | |
|-------|---|---------------------|-------------------|-----------|----|
| 1890 | | | | | |
| Jan. | 2 | David Moffat..... | 2,000 | 200,000 | 00 |
| | | H. A. W. Tabor..... | 2,000 | 200,000 | 00 |
| | | C. N. Wood..... | 1,500 | 150,000 | 00 |
| | | Dennis Ryan..... | 2,000 | 200,000 | 00 |
| | | A. H. Jones..... | 1,500 | 150,000 | 00 |
| | | C. J. Berlin..... | 1,000 | 100,000 | 00 |
| | | | 10,000 | 1,000,000 | 00 |

The entries in the Stock Journal would be as follows:

ST. PAUL, Jan. 2, 1890.

| | | | | |
|--|---------|----|-----------|----|
| Sundries Dr. to Capital Stock..... | | | 1,000,000 | 00 |
| David Moffat, for 2,000 Shares..... | 200,000 | 00 | | |
| H. A. W. Tabor, for 2,000 Shares..... | 200,000 | 00 | | |
| C. N. Wood, for 1,500 Shares..... | 150,000 | 00 | | |
| Dennis Ryan, for 2,000 Shares..... | 200,000 | 00 | | |
| A. H. Jones, for 1,500 Shares..... | 150,000 | 00 | | |
| C. J. Berlin, 1,000 Shares..... | 100,000 | 00 | | |
| Sundries Dr. to Stock..... | | | 250,000 | 00 |
| David Moffat, for Assessment No 1, 25% on 2,000 Shares... | 50,000 | 00 | | |
| H. A. W. Tabor, for Assessment No. 1, 25% on 2,000 Shares... | 50,000 | 00 | | |
| C. N. Wood, for Assessment No. 1, 25% on 1,500 Shares..... | 37,500 | 00 | | |
| Dennis Ryan, for Assessment No. 1, 25% on 2,000 Shares.... | 50,000 | 00 | | |
| A. H. Jones, for Assessment No. 1, 25% on 1,500 Shares..... | 37,500 | 00 | | |
| C. J. Berlin, for Assessment No. 1, 25% on 1,000 Shares..... | 25,000 | 00 | | |

The entries on the Stock Cash Book, when the assessments are paid in, would be:

| Dr. | | | | CASH. | | | | Cr. | | | |
|------|---|--|---------|-------|------|---|--|---------|----|--|--|
| 1890 | | | | | | | | 1890 | | | |
| Jan. | 2 | To D. Moffat, for Assessment No. 1 | 50,000 | 00 | Jan. | 2 | By Goodluck M. & M. Co. for amount received on Assessment No. 1..... | 250,000 | 00 | | |
| | | To H. A. W. Tabor, for Assessment No. 1..... | 50,000 | 00 | | | | | | | |
| | | To C. N. Wood, for Assessment No. 1..... | 37,500 | 00 | | | | | | | |
| | | To D. Ryan, for Ass. No. 1 | 50,000 | 00 | | | | | | | |
| | | To A. H. Jones, for Assessment No. 1..... | 37,500 | 00 | | | | | | | |
| | | To C.J. Berlin, for Assessment No. 1..... | 25,000 | 00 | | | | | | | |
| | | | 250,000 | 00 | | | | 250,000 | 00 | | |

ILLUSTRATION 3.—CAPITAL STOCK SOLD FOR A PERCENTAGE OF ITS PURCHASE.

STOCK SUBSCRIPTION BOOK.

The Maverick Land and Cattle Company, with a Capital Stock of the par value of \$1,000,000, in Shares of \$100 each, to be disposed of to the subscribers at fifty per cent of their par value in cash, has been organized for the purpose of buying, selling and raising Cattle; buying and selling Land, and transacting such other business as may be necessary. We, the undersigned, hereby agree to take and pay for the number of Shares set opposite our names, on the terms and conditions above set forth.

| DATE. | | NAMES. | No. OF SHARES. | AMOUNT. | |
|-------|---|---------------------|----------------|-----------|----|
| 1890 | | | | | |
| Jan. | 2 | A. V. Head..... | 2,500 | 250,000 | 00 |
| | | S. T. Hauser..... | 2,500 | 250,000 | 00 |
| | | T. A. Marshall..... | 1,000 | 100,000 | 00 |
| | | H. A. True..... | 2,000 | 200,000 | 00 |
| | | P. H. Kelly..... | 2,000 | 200,000 | 00 |
| | | | 10,000 | 1,000,000 | 00 |

The Journal entries would be:

ST. PAUL, JAN. 2, 1890.

| | | | | |
|---|---------|----|-----------|----|
| Sundries Dr. to Capital Stock..... | | | 1,000,000 | 00 |
| A. V. Head, for subscription for 2,500 Shares..... | 250,000 | 00 | | |
| S. T. Hauser, for subscription for 2,500 Shares... | 250,000 | 00 | | |
| T. A. Marshall, for subscription for 1,000 Shares.. | 100,000 | 00 | | |
| H. A. True, for subscription for 2,000 Shares | 200,000 | 00 | | |
| P. H. Kelly, for subscription for 2,000 Shares..... | 200,000 | 00 | | |
| Sundries Dr. to Stock..... | | | 500,000 | 00 |
| A. V. Head, for 2,500 Shares of Capital Stock..... | 125,000 | 00 | | |
| S. T. Hauser, for 2,500 Shares of Capital Stock... | 125,000 | 00 | | |
| T. A. Marshall, for 1,000 Shares of Capital Stock | 50,000 | 00 | | |
| H. A. True, for 2,000 Shares of Capital Stock | 100,000 | 00 | | |
| P. H. Kelly, for 2,000 Shares of Capital Stock..... | 100,000 | 00 | | |

The entry on the Stock Cash Book would be :

| Dr. | | | | CASH. | | | | CASH. | | | | Cr. | | | |
|------|------|---|---|---------|----|------|---|--|--|--|--|---------|---------|----|--|
| 1890 | Jan. | 2 | To A. V. Head, for subscription to Stock..... | 125,000 | 00 | Jan. | 2 | By The Maverick Land and Cattle Company for amounts received for subscriptions to the Capital Stock..... | | | | 500,000 | 00 | | |
| | | | To S. T. Hauser, for subscription to Stock..... | 125,000 | 00 | | | | | | | | | | |
| | | | To T. A. Marshall, for subscription to Stock... | 50,000 | 00 | | | | | | | | | | |
| | | | To H. A. True, for subscription to Stock..... | 100,000 | 00 | | | | | | | | | | |
| | | | To P. H. Kelly, for subscription to Stock..... | 100,000 | 00 | | | | | | | | | | |
| | | | | 500,000 | 00 | | | | | | | | 500,000 | 00 | |

TRANSFERRING STOCK.

When a stockholder sells or disposes of his stock, or any portion thereof, it is necessary that a record of such transfer should be made on the books of the company. If the whole amount held by the party making the transfer is to be transferred, it may be done by an indorsement on the original certificate, or by issuing a new one. In case only a portion was transferred, it would be necessary to issue a new certificate to each one for the number of shares held by each.

B. K. Marshall wishes to transfer 100 shares of stock in the St. Paul Investment Company to H. P. Upham. The entry on the Stock Journal would be:

| | |
|------------------------|-----------|
| H. P. Upham, | 10,000.00 |
| Dr. To B. K. Marshall, | 10,000.00 |

For 100 shares of stock transferred.

A certificate should be issued to H. P. Upham for the 100 shares, and a new one to B. K. Marshall for 150, the balance held by him; the old certificate being taken up and canceled.

DIVIDENDS.

When a dividend is declared by the board of directors from the accrued profits or other sources, a dividend account should be opened on the General Ledger, and credited with the amount of such dividend, debiting Profit and Loss, or other source of said dividend. When payments are made, dividend account should be debited for the same.

TIME TABLES.

Table showing the Number of Days from any Day of one Month to the same Day of any other Month within the Year.

| FROM ANY DAY OF | TO THE SAME DAY OF | | | | | | | | | | | |
|-----------------|--------------------|------|------|--------|------|-------|-------|------|-------|------|------|------|
| | Jan. | Feb. | Mar. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
| January..... | 365 | 31 | 59 | 90 | 120 | 151 | 181 | 212 | 243 | 273 | 304 | 334 |
| February..... | 334 | 365 | 28 | 59 | 89 | 120 | 150 | 181 | 212 | 242 | 273 | 303 |
| March..... | 306 | 337 | 365 | 31 | 61 | 92 | 122 | 153 | 184 | 214 | 245 | 275 |
| April..... | 275 | 306 | 334 | 365 | 30 | 61 | 91 | 122 | 153 | 183 | 214 | 244 |
| May..... | 245 | 276 | 304 | 335 | 365 | 31 | 61 | 92 | 122 | 153 | 184 | 214 |
| June..... | 214 | 245 | 273 | 304 | 334 | 365 | 30 | 61 | 92 | 122 | 153 | 183 |
| July..... | 184 | 215 | 243 | 274 | 304 | 335 | 365 | 31 | 62 | 92 | 123 | 153 |
| August..... | 153 | 184 | 212 | 243 | 273 | 304 | 334 | 365 | 31 | 61 | 92 | 122 |
| September..... | 122 | 153 | 181 | 212 | 242 | 273 | 303 | 334 | 365 | 30 | 61 | 91 |
| October..... | 92 | 123 | 151 | 182 | 212 | 243 | 273 | 304 | 335 | 365 | 31 | 61 |
| November..... | 61 | 92 | 120 | 151 | 181 | 212 | 242 | 273 | 304 | 334 | 365 | 30 |
| December..... | 31 | 62 | 90 | 121 | 151 | 182 | 212 | 243 | 274 | 304 | 335 | 365 |

EXAMPLE. How many days from May 15, 1888, to March 23, 1889? Find May in the vertical column on the left, and March over the top. At the intersection of these two lines we find 304, which is the number of days from May 15, 1888, to March 15, 1889; to March 23 will be 8 more days = 312, the number of days required. One more day than is given in the above table must be allowed for intervals embracing the end of February falling in a leap year.

Table Showing the Numerical Order of the Days of the Year.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| January..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| February..... | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | | | |
| March..... | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| April..... | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | |
| May..... | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 |
| June..... | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | |
| July..... | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 |
| August..... | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 |
| September... | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | |
| October..... | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 |
| November.... | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | |
| December.... | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 |

The foregoing table will be found useful in ascertaining the date on which a note or account falls due, when the time is expressed in days.

EXAMPLE. On what date will a note at 90 days, given March 24th, be due? By referring to the table, under March 24th we find 83; adding the time of the note, $83 + 90 = 173$; referring to the table, we find that the 173d day is June 22d; therefore, the note will be due June 22d, or 25th, allowing three days grace.

When the time runs from one year into another the date can be found by subtracting the number of days remaining in the first year from the given time, and under the date of the remainder will be found the required date.

EXAMPLE. On what date will a note given Nov. 15, 1889, at 90 days, fall due? We find from the table that there are 46 days still remaining in that year; $90 - 46 = 44$; under 44 we find February 13th; therefore, the note will be due Feb. 13, or 16, 1890.

In leap years, where the end of the month of February intervenes, one day should be deducted from the date shown by the table.

To ascertain on what day of the week any given date falls in any year: To the year (omitting the century) add one-fourth part (rejecting fractions, if any), the day of the month desired, and the ratio of the month, as shown in the table; divide the product by 7. If the remainder is 1, the day is Sunday; 2, Monday; 3, Tuesday; 4, Wednesday; 5, Thursday; 6, Friday; 0, Saturday.

RATIO OF MONTHS.

| | |
|-----------------------------------|---|
| September and December..... | 1 |
| April and July..... | 2 |
| January and October..... | 3 |
| May..... | 4 |
| August..... | 5 |
| February, March and November..... | 6 |
| June..... | 0 |

In leap years add one less for the ratio of January and February in that year.

Example.

On what day will July 4 fall in 1891?

- 91 The year, omitting the century.
- 22 One-fourth of 91, rejecting the fraction.
- 4 The day of the month desired.
- 2 The ratio of July.

7)119(17-0 remainder = Saturday.

On what day of the week did August 7th, 1872, fall?

- 72 The year, omitting the century.
- 18 One-fourth of 72.
- 7 The day of the month desired.
- 5 The ratio of August.

7)102(14-4 remainder. It therefore fell on Wednesday.

EQUATION OF PAYMENTS.

Many accountants who are called upon but seldom to average an account find themselves at a loss how to proceed, having forgotten the method, and the rules for doing so not being easily accessible. The following rules, which are believed to be the shortest and most simple in use, have been compiled. By their use

any account can be easily and readily equated. Equation of payments is the process of finding when two or more sums, due at different times, may be paid at once without loss to debtor or creditor. The time for such payments is called the equated time.

RULE.

To equate two or more debits, due at different times, multiply each debit by its term of credit and divide the sum of the products by the sum of the debits. The quotient will be the equated or average time.

Example.

John Smith owes Henry Jones \$1,200; \$250 due in two months, \$300 in three months, \$350 in four months and \$300 in six months, from March 25th. If Smith pays the whole sum at one time, how long a credit should he have?

$$\begin{array}{r} 250 \times 2 = 500 \\ 300 \times 3 = 900 \\ 350 \times 4 = 1400 \\ 300 \times 6 = 1800 \\ \hline \end{array}$$

1200)4600($3\frac{5}{8}$ months = 3 months 25 days
from March 25th, which we find by the table to be July 20th, as the date on which the whole sum should be paid.

PARTIAL PAYMENTS.

It often happens that partial payments are made on a debt before it falls due. In such case the debtor is entitled to an extension of time on the balance. To find the time of such extension to be allowed:

RULE.

Multiply each payment by the time it was made before falling due, and divide the sum of these products by the balance of the debt. The result will be the extension to be allowed, beyond the original time, on the balance.

Example.

Joseph Brown sells B. K. Marshall, Aug. 7, 1889, a bill of goods amounting to \$1,750, on six months' time. At the expiration of one month he pays \$100 on account, at the end of two months \$250, at the end of three months \$325, at four months \$400 and at five months \$250. At what time after the expiration of the six months would the balance be due? \$1750.00 at six months from Aug. 7, 1889, due Feb. 7, 1890:

$$\begin{aligned} 100 \times 5 &= 500 \\ 250 \times 4 &= 1000 \\ 325 \times 3 &= 975 \\ 400 \times 2 &= 800 \\ 250 \times 1 &= 250 \end{aligned}$$

Balance 425 $\overline{)3525(8\frac{5}{7}}$ months = 8 months 9 days
from February 7, which we find by the table to be Oct. 16, 1890, as the date on which the balance would be due.

Where the account consists of bills bought on different dates and terms of credit, and it is desired to find at what time the whole account would fall due.

RULE.

To equate an account when the terms of credit begin at different times and on different terms: Find the dates when the several amounts become due; from the earliest of these dates as a standard, reckon the number of days to each of the others; then find the equated time by dividing the sum of the products by the sum of the account, as before, and reckon it forward from the standard date.

Example.

We find upon our Ledger the following account, which the party desires to settle at once. At what date would it be due?

| | | | | | |
|-------|-----|--------------------------|-----|-------------|------------------------------------|
| March | 1, | \$350 at 3 mo., due June | 1, | 350 × 0 = | 000000 |
| April | 15, | 500 at 4 mo., due Aug. | 15, | 500 × 75 = | 37500 |
| May | 10, | 200 at 2 mo., due July | 10, | 200 × 39 = | 7800 |
| June | 20, | 600 at 6 mo., due Dec. | 20, | 600 × 202 = | 121200 |
| | | <u>1650</u> | | <u>1650</u> | <u>166500</u> |
| | | | | | $100\frac{150}{166500} = 101$ days |

from June 1st, which on reference to the table we find to be September 10th, is the date on which a note should be made payable. June 1st being the earliest date on which any of the amounts fall due, we take it as the standard date from which to reckon the time.

AVERAGING ACCOUNTS.

It is often desirable to settle or close an account by taking a note for the balance, or the debtor may wish to pay it in full, in which case it becomes necessary to average the account in order to find what the cash balance is, or at what date the note should be made payable. Unless the accountant is in constant practice he is very liable to forget the method of doing so, especially if the account embraces items on both sides on which different terms of credit are allowed. Works have been published giving tables in which the results can be found, but as few have them at hand, and even then it is as easy and quick to work them out as to hunt through the tables for the various sums, to say nothing of the liability to error in setting down the wrong amounts, it is believed that the following rule will enable one to accomplish the desired result in less time and with less trouble.

RULE.

To average an account which embraces items on both sides having different dates and terms of credit, and to find the cash balance or the date on which the balance is due : Take the earliest date on either side on which an item falls due as a standard, and multiply each item by the number of days intervening between the item when it falls due and the standard date ; divide the difference between the sum of the debit and that of the credit products by the balance of the accounts. The quotient will be the averaged time. Reckon this forward from the standard date if the excess of products is on the same side with the balance of the account ; if not, backward.

To find the cash balance, average the account, and if the given date of settlement falls before the averaged time, find the present worth of the balance of the account for the interval between the date of settlement and when due ; if after, add interest for the interval.

To find the present worth, divide the given sum by the amount of \$1.00 for the given time at the given rate.

Example.

The following account with James Williams appears on my Ledger, which he desires to settle at this date, July 30th. What is the cash balance, or if a note is given for the balance, when should it be made payable, interest being reckoned at 7 per cent?

James Williams.

| 1890 | | | | | | 1890 | | | | | |
|------|----|---------------------|---|-----|----|------|----|---------------------|-----|-----|----|
| Jan. | 5 | To Mdse. @ 3 mos... | 1 | 375 | 00 | Jan. | 10 | By Mdse. @ 3 mos... | 1 | 150 | 00 |
| | 25 | " Mdse. @ 4 mos... | 2 | 500 | 00 | | 25 | " Cash..... | 25 | 100 | 00 |
| Feb. | 3 | " Mdse. @ 2 mos... | 3 | 250 | 00 | Feb. | 5 | " Mdse. @ 4 mos... | 3 | 300 | 00 |
| Mch. | 15 | " Mdse. @ 6 mos... | 5 | 680 | 00 | | 15 | " Mdse. @ 4 mos... | 4 | 250 | 00 |
| Apl. | 30 | " Mdse. @ 3 mos... | 7 | 400 | 00 | Apl. | 30 | " Cash..... | 113 | 400 | 00 |

Arranging the different sums on each side under the date on which they respectively fall due, and multiplying each item by the number of days between the earliest date, as the standard, and the date on which they severally fall due; dividing the balance of the products by the balance of the account, we have:

| | | | |
|-----------------|----------------------------|-------------------|---------------------------|
| April 5th..... | $375 \times 70 = 26,250$ | April 10th..... | $150 \times 75 = 11,250$ |
| May 25th..... | $500 \times 120 = 60,000$ | January 25th..... | $100 \times 0 = 0$ |
| April 3d..... | $250 \times 68 = 17,000$ | June 5th..... | $300 \times 131 = 39,300$ |
| Sept. 15th..... | $680 \times 233 = 158,440$ | June 15th..... | $250 \times 141 = 35,250$ |
| July 30th..... | $400 \times 186 = 74,400$ | April 30th..... | $400 \times 95 = 38,000$ |
| | <u>2,205</u> | | <u>1,200</u> |
| | 1,200 | | 123,800 |
| | | | |

Bal. of acct..... 1,005)212,290(= 211 days from January 25th, which we find by the table to be August 24th, the date on which the balance of the account would fall due, and the date on which, if a note is given, it should be made payable. If settled by cash on the day of settlement, we find the present worth of the balance of the account, due in 25 days, to be \$1,000.20, the amount to be paid July 30th.

It is the practice in many places to deduct simple interest on the balance of the account for the unexpired time, instead of finding the present worth. By that method the cash balance July 30th would be \$1,000.17.

Another method of arriving at practically the same result—that is, to find the cash balance—is to find the interest on each item from the date it falls due to the time of settlement. Write it on the same side of the account as its item, if the item falls due before the date of settlement; if not, on the opposite side. Find the balance of interest, and add it to the balance of the account, if the two balances are on the same side; if not, subtract it. Taking the foregoing account as an example, we have:

Dr.

Cr.

| Date. | Amount. | Days. | Interest. | Date. | Amount. | Days. | Interest. |
|--------------------------|-----------|-------|--------------|-------------------------|-----------|-------|-----------|
| April..... | 5 375 00 | 116 | 8 37 | April..... | 10 150 00 | 111 | 3 20 |
| May..... | 25 500 00 | 66 | 6 35 | January..... | 25 100 00 | 186 | 3 58 |
| April..... | 3 250 00 | 118 | 5 67 | June..... | 5 300 00 | 55 | 3 17 |
| September..... | 15 680 00 | | | | | 47 | 6 15 |
| July..... | 30 400 00 | | | June..... | 15 250 00 | 45 | 2 16 |
| | | | | April..... | 30 400 00 | 91 | 7 00 |
| Totals..... | 2, 205 00 | | 20 39 | | 1, 200 00 | | 25 26 |
| Balance of Interest..... | | | 4 87 | Balance of account..... | 1, 005 00 | | |
| | 2, 205 00 | | 25 26 | | 2, 205 00 | | 25 26 |
| Cash Balance..... | 1, 000 13 | | Due July 30. | | | | |

As the balance of the account and interest are on opposite sides, we deduct the balance of interest from the balance of the account, which leaves \$1,000.13 as the cash balance due July 30th. The difference in the results arises from the fractions of days in one method, and of cents in the other. If the fraction amounts to one-half, or over, of a day, we call it one day; if less, throw it away, and the same with the cents in interest.

FOREIGN EXCHANGE.

Foreign Bills of Exchange are those that are drawn in one country and payable in another. They are usually drawn in sets of two or more bills of the same tenor and date, one of which being paid, the others are null and void. This is done to prevent delay in the payment if one should be lost, they being forwarded by different mails. The bills are usually known as Banker's or Sterling Bills, and Commercial, and are drawn at sight or on time. Banker's sight command the highest price, Commercial time the lowest.

The rate of exchange varies from day to day, and is quoted daily in the papers of the commercial centres. The quotations are given on England in the number of cents that will buy £1 of exchange. Thus, if exchange on London is quoted at 4.86 for sterling, \$4.86 will buy £1 of exchange. On France at so many centimes to the dollar. A centime is $\frac{1}{100}$ of a franc. If exchange is quoted at 5.12, \$1.00 will buy 5 francs 12 centimes of exchange. Exchange on other countries is quoted at so many cents to some coin taken as a standard.

ARBITRATION OF EXCHANGE.

It often happens, owing to the demand, or other causes, that exchange on any particular country can be purchased cheaper by buying through one or more intermediate countries. As, for instance, owing money in London, you buy a draft on Paris, exchange that for one on Hamburg, and that for one on London. The question to be determined is whether it would be better to buy in that way or direct. It can be ascertained by the following:

RULE.

Write the equivalents by pairs, each with its denomination, on opposite sides of a vertical line, commencing on the left with the denomination of the required sum to be remitted, and arranging the terms so that each denomination on the right may correspond with the one next below it on the left. If the terms are properly arranged the last denomination on the right will correspond with the first on the left. Cancel common factors on the left and right, and divide the product of the remaining terms on the right by that of the remaining terms on the left.

The following examples will serve to illustrate the rule:

Example 1.

A merchant owing £1,800 in London, finds that exchange on London is 4.88; on Paris, 5.15. Exchange on London in Paris is 25 francs 15 centimes to the pound sterling. Is it better for him to remit direct, or by circuitous exchange through Paris, and how much?

| | | | |
|-------------|---------------|-----------|----------|
| \$ | £1800. | Canceling | 1800 360 |
| £1 | 25.15 Francs. | | 25.15 |
| Francs 5.15 | \$1. | 1.03 5.15 | |

We have $360 \times 25.15 \div 1.03 = \$8,790.29$ as the cost by circuitous exchange. By direct, $1,800 \times 4.88 = \$8,784.00$. Gain by direct exchange, \$6.29.

Example 2.

A New York merchant having a balance of £1,000 due him in London, orders it remitted by the following course: To Hamburg, the rate of exchange being $20\frac{3}{4}$ marks to the pound; thence to Copenhagen, at $2\frac{1}{4}$ marks to the

rix-dollar; thence to Bordeaux, at 2 francs 80 centimes to the rix-dollar; thence to New York, at 5 francs 30 centimes to the dollar. How many dollars did he receive? Would he have gained or lost by drawing directly on London and selling his draft at 4.87; taking no account of interest?

| | | | |
|---------------|---------------|-----------|----------|
| \$ | £1000 | Canceling | 1000 200 |
| £1 | 20.75 Marks. | | 20.75 83 |
| Marks 2.25 | 1 Rix-dollar. | 9 2.25 | |
| Rix-dollars 1 | 2.80 Francs. | | 2.80 |
| Francs 5.30 | \$1 | 1.06 5.30 | |

We have $200 \times 2.80 \times 83 \div 1.06 \times 9 = \$4,872.12$ as the amount he would receive; if he had drawn direct, $1000 \times 4.87 = \$4,870.00$. Gain by circuitous exchange, \$2.12.

RULES FOR CALCULATING INTEREST.

The following rules for calculating interest are based on thirty days to the month, which has become the general usage throughout the United States. For the purposes of accountants and others having to make frequent calculations, they are considered the shortest, simplest and best methods in use, and, in connection with the time tables given elsewhere, will enable one to calculate interest rapidly, readily and correctly, on any amount for any length of time.

To find the interest on any sum, at any rate per cent, for any given time: Reduce the years to months, adding in the number of months in the given time; to this sum annex one-third the number of days; multiply the principal by the sum thus obtained, pointing off as many places in the product as you have figures in the multiplier and cents in the principal. The product will be the interest at 12 per cent.

To find the interest at any other rate per cent:

If at 6 per cent, take $\frac{1}{2}$ of this product.

If at 7 per cent, take $\frac{7}{12}$ of this product.

If at 8 per cent, take $\frac{2}{3}$ of this product.

If at 9 per cent, take $\frac{3}{4}$ of this product.

If at 10 per cent, take $\frac{5}{6}$ of this product.

If at 11 per cent, take $1\frac{1}{2}$ of this product.

If at 15 per cent, add $\frac{1}{4}$ to this product.

If at 18 per cent, add $\frac{1}{2}$ to this product.

If at 20 per cent, add $\frac{2}{3}$ to this product.

SHORT RULE FOR INTEREST.

To find the interest on any sum for any number of days at any rate of interest, multiply the principal by the number of days, and divide —

If at 3 per cent, by 120.

If at 4 per cent, by 90.

If at 5 per cent, by 72.

If at 6 per cent, by 60.

If at 7 per cent, by 52.

If at 8 per cent, by 45.

If at 9 per cent, by 40.

If at 10 per cent, by 36.

If at 12 per cent, by 30.

If at 15 per cent, by 24.

If at 18 per cent, by 20.

If at 20 per cent, by 18.

The above is based on thirty days to the month, except 7 per cent, which is 364 days to the year.

RAPID ADDITION.

A very useful, and one might say necessary, qualification for accountants, railroad and entry clerks, and all others having a large amount of footing to do, is the ability to foot rapidly and correctly. The following suggestions are offered in the belief that, if faithfully followed and persisted in, they will very materially aid in accomplishing that result :

The process of addition may be likened to learning to read, as one is the result of the various combinations of the letters of the alphabet, and is learned by practice and memory, by which one becomes so expert that they can tell at a glance what any combination of letters means, or word they represent, without having to spell it out letter by letter. In the same manner anyone can acquire the faculty of telling at a glance the sum of as many figures as the eye can take in at once. The figures being only about one-third as many in number as the letters of the alphabet, it is proportionately easier to learn the various combinations; with

this further advantage in favor of the figures, that while the same letters, if differently arranged or combined, will produce widely different results, the same figures in addition will always produce the same result, no matter in what order they are placed; so that having once learned a combination you know its sum in whatever order it may be arranged.

It should be borne in mind that merely committing to memory a series of combinations will not make one an expert in rapid addition, but that it is a very essential part of the system that there should be constant practice. A portion of each day, no matter how small, should be devoted to practice. By so doing the student will be surprised at the rapid improvement he is capable of, both in speed and correctness.

In commencing practice with this object in view, a very good plan is first to arrange a series of combinations, consisting of say five figures, and commit them to memory, so that you will be able to give their sum at sight as easily and readily as you would a word of five letters. For instance:

| | | | | | | | | | | | | | |
|----|----|----|----|----|---|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 2 |
| 2 | 3 | 4 | 5 | 6 | 2 | 3 | 4 | 2 | 2 | 4 | 4 | 3 | 8 |
| 3 | 4 | 5 | 6 | 7 | 2 | 3 | 4 | 3 | 4 | 5 | 5 | 5 | 7 |
| 4 | 5 | 6 | 7 | 8 | 2 | 3 | 4 | 3 | 4 | 5 | 4 | 8 | 9 |
| 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 3 | 4 | 6 | 7 | 7 | 6 |
| 15 | 20 | 25 | 30 | 35 | 9 | 13 | 17 | 12 | 15 | 23 | 23 | 24 | 32 |

Other combinations can be easily formed, which should be gradually extended until you can take in and tell at a glance the sum of any column of at least ten figures.

In the same manner it may be extended so as to take in two or more columns at a time, very materially increasing the speed.

SHORT METHODS OF EXTENSION.

The following rule, original with the author, and never before published, will prove of great service to accountants, entry clerks and others in making extensions of invoices, figuring percentages, etc., where the multiplier consists of two or more of the same figures, as 33, 444, etc. By a little practice anyone can become very expert in its use, and make the extension in a single line as rapidly as he can multiply by a single figure.

RULE.

Multiply the first or right-hand figure of the sum to be multiplied by the first figure of the multiplier; set down the unit of the result for the first figure of the product; add the first and second figures of the multiplicand together; multiply their sum by the first figure of the multiplier, as before, carrying the tens, if any, as in ordinary multiplication; set down the unit of the result for the second figure of the product; if there should be only two figures in the multiplier after you have added the first two together, drop the right-hand one and take up the one on the left; add and multiply them, as before. Continue so to do until there is but one left; multiply that, setting down the result. You will then have the total in one line.

If there should be more than two figures in the multiplier, commencing on the right with the first and then adding the first two together, then the first three, and so on, until you have added as many figures of the multiplicand together as you have figures in the multiplier, then dropping one from the right and taking up from the left as long as there is any to take up; continue to drop from the right until there is none remaining, multiplying each addition and setting down the unit of the result and carrying the tens until the final one in which the total is set down.

The following examples will show the application of the rule:

Example 1.

$$\begin{array}{rcl}
 7863 & 3 \times 3 = & 9 \\
 33 & 3 + 6 = 9 \times 3 = & 27 \\
 \hline
 259479 & 6 + 8 = 14 \times 3 = 42 + 2 = 44 \\
 & 8 + 7 = 15 \times 3 = 45 + 4 = 49 \\
 & 7 \times 3 = 21 + 4 = 25 = 259479.
 \end{array}$$

Proof.

$$\begin{array}{r}
 7863 \\
 33 \\
 \hline
 23589 \\
 23589 \\
 \hline
 259479
 \end{array}$$

Example 2.

$$\begin{array}{rcl}
 2594 & 4 \times 4 = & 16 \\
 444 & 4 + 9 = 13 \times 4 = 52 + 1 = & 53 \\
 \hline
 1151736 & 4 + 9 + 5 = 18 \times 4 = 72 + 5 = 77 \\
 & 9 + 5 + 2 = 16 \times 4 = 64 + 7 = 71 \\
 & 5 + 2 = 7 \times 4 = 28 + 7 = 35 \\
 & 2 \times 4 = 8 + 3 = 11 = 1151736
 \end{array}$$

Proof.

$$\begin{array}{r}
 2594 \\
 444 \\
 \hline
 10376 \\
 10376 \\
 10376 \\
 \hline
 1151736
 \end{array}$$

To square any number of figures ending in 5: Multiply the left-hand figure or figures by the left-hand figures of the number to be squared, increased by 1, and annex 25 to the result.

Examples.

$$\begin{array}{l}
 75 \times 75 = 7 \times 8 = 56 \text{ annex } 25 = 5625 \\
 425 \times 425 = 42 \times 43 = 1806 \text{ annex } 25 = 180625
 \end{array}$$

To multiply any number of figures ending in 5: Taking the smaller number as the multiplier, increase the left-hand figure or figures of the multiplicand by 1, and multiply by the left-hand figure or figures of the multiplier, adding 50 for each difference of 1 between the left-hand figures of the multiplier and multiplicand, and to that result add 25.

Examples.

$$\begin{array}{l}
 35 \times 25 = 4 \times 2 = 800 + 50 + 25 = 875 \\
 425 \times 215 = 43 \times 21 = 90300 + 1050 + 25 = 91375
 \end{array}$$

In this method two ciphers are always annexed to the first result. By practice one may become very proficient in its use, especially where only two figures are involved in each sum, and find it very

useful in making extensions on invoices, etc. To multiply by any of the following numbers, annex two ciphers to the sum to be multiplied, and

If by 50, divide by 2.

If by $33\frac{1}{3}$, divide by 3.

If by 25, divide by 4.

If by 20, divide by 5.

If by $16\frac{2}{3}$, divide by 6.

If by $12\frac{1}{2}$, divide by 8.

A very convenient and rapid method of making extensions in a single line, in figuring percentages in railroad or other work, where it is desired to divide an amount into several parts, or amongst the different divisions of a railroad, or in making extensions on invoices, etc., especially where the percentage or price is expressed by two figures, is to use the sum to be divided or extended, if it contains more figures than the per cent or price as the multiplier. This method only requires practice to make one very expert and rapid in its use, saving a great deal of time and labor, and, as experience shows, one who practices and uses this method is less liable to error than by the old methods.

The essential part of this method is to multiply by a single figure and keep in mind the amount to be carried. It can also be extended so as to include three or more figures, the only difference being in the larger amounts to be carried from one multiplication to another, which anyone will soon be able to do after practice on two figures. The following is the rule:

RULE.

Multiply the percentage or price by the first figure of the amount to be apportioned or extended, setting down the first figure of the result; then multiply the per cent by the second figure, adding to the result the amount to be carried from the first result, setting down the unit of this result on the left of the one previously obtained. Proceed in like manner, multiplying the per cent or price by each figure of the amount to be extended, and carrying from the former result, placing the unit on the left, until the last figure is reached, when the whole of that result should be placed on the left, giving the total in one line.

The following examples, with the explanations, will serve to make the rule more readily understood:

Example 1.

It is desired to divide or apportion the following amounts amongst the different divisions of a railroad, according to the percentage to which they are entitled:

| Amt. | Per Ct. | Amt. | Per Ct. | Amt. | Per Ct. | Amt. | Per Ct. | Amt. |
|-------|---------|------|---------|-------|---------|-------|---------|------|
| 46.75 | 15 | 7.01 | 35 | 16.36 | 33 | 15.43 | 17 | 7.95 |

15×46.75 ; multiplying by first figure, $15 \times 5 = 75$; set down 5; carry 7; $15 \times 7 = 105 + 7 = 112$; set down unit on left of first figure = 25; carry 11; $15 \times 6 = 90 + 11 = 101$; set down unit as before = 125; carry 10; $15 \times 4 = 60 + 10 = 70$; setting down total on left = 7.0125 for first percentage. $35 \times 5 = 175$; set down 5; carry 17; $35 \times 7 = 245 + 17 = 262$; set down 2; carry 26; $35 \times 6 = 210 + 26 = 236$; set down 6; carry 23; $35 \times 4 = 140 + 23 = 163$; set down total = 16.3625, second percentage. $33 \times 5 = 165$; set down 5; carry 16; $33 \times 7 = 231 + 16 = 247$; set down 7; carry 24; $33 \times 6 = 198 + 24 = 222$; set down 2; carry 22; $33 \times 4 = 132 + 22 = 154$; set down total, 15.4275, third percentage. $17 \times 5 = 85$; set down 5; carry 8; $17 \times 7 = 119 + 8 = 127$; set down 7; carry 12; $17 \times 6 = 102 + 12 = 114$; set down 4; carry 11; $17 \times 4 = 68 + 11 = 79$; set down total = 7.9475, fourth percentage.

Percentages.

Amounts.

| | |
|-----------------|-------|
| 15 | 7.01 |
| 35 | 16.36 |
| 33 | 15.43 |
| 17 | 7.95 |
| <hr/> | <hr/> |
| Totals..... 100 | 46.75 |

Example 2.

| Amt. | Per Ct. | Amt. | Per Ct. | Amt. | Per Ct. | Amt. | Per Ct. | Amt. |
|--------|---------|-------|---------|-------|---------|--------|---------|--------|
| 384.36 | 23 | 88.40 | 16 | 61.50 | 34 | 130.68 | 27 | 103.78 |

Multiplying by first figure of amount, $23 \times 6 = 138$; set down 8; carry 13; $23 \times 3 = 69 + 13 = 82$; set down 2; carry 8; $23 \times 4 = 92 + 8 = 100$; set down 0; carry 10; $23 \times 8 = 184 + 10 = 194$; set down 4; carry 19; $23 \times 3 = 69 + 19 = 88$; set down total = 88.4028, first percentage. $16 \times 6 = 96$; set down 6; carry 9; $16 \times 3 = 48 + 9 = 57$; set down 7; carry 5; $16 \times 4 = 64 + 5 = 69$; set down 9; carry 6; $16 \times 8 = 128 + 6 = 134$; set down 4; carry 13; $16 \times 3 = 48 + 13 = 61$; set down total = 61.4976, second percentage. $34 \times 6 = 204$; set down 4; carry 20; $34 \times 3 = 102 + 20 = 122$; set down 2; carry 12; $34 \times 4 = 136 + 12 = 148$; set down 8; carry 14; $34 \times 8 = 272 + 14 = 286$; set down 6; carry 28; $34 \times 3 = 102 + 28 = 130$; set down total = 130.6824, third percentage. $27 \times 6 = 162$; set down 2; carry 16; $27 \times 3 = 81 + 16 = 97$; set down 7; carry 9; $27 \times 4 = 108 + 9 = 117$; set down 7; carry 11; $27 \times 8 = 216 + 11 = 227$; set down 7; carry 22; $27 \times 3 = 81 + 22 = 103$; set down total = 103.7772, fourth percentage.

| Percentages. | Amounts. |
|-----------------|----------|
| 23 | 88.40 |
| 16 | 61.50 |
| 34 | 130.68 |
| 27 | 103.78 |
| <hr/> | <hr/> |
| Totals..... 100 | 384.36 |

A very good plan in practicing the above method, until one has become expert enough to do it readily, is to set the amounts to be carried down on a slip of paper, but rely on it as little as possible.

BUSINESS LAW.

It is a fraud to conceal a fraud.

Ignorance of the law excuses no one.

The acts of one partner bind all the rest.

A note or contract made with a minor is voidable.

A note or contract made with a lunatic is void.

An agreement without consideration cannot be enforced.

Principals are responsible for the acts of their agents.

Checks or drafts must be presented for payment within a reasonable time.

Signatures made with a lead pencil are good in law.

A note made on Sunday is void, and contracts made on Sunday cannot be enforced.

A note obtained by fraud, or from a person in a state of intoxication, cannot be collected.

It is not legally necessary to say on a note "for value received."

Notes bear interest only when so stated.

A note lost or stolen does not release the maker ; he must pay it, if the consideration for which it was given and the amount can be proven.

An indorser has the right of action against all whose names were on the bill when he received it.

An indorser may prevent his own liability to be sued by writing "without recourse," or similar words.

If the letter containing a protest of non-payment be put into the post office, any miscarriage does not affect the party giving notice.

Part payment of a debt which has passed time of statutory limitation revives the whole debt.

Each individual in a partnership is responsible for the whole amount of the debts of the firm, except in cases of special partnership.

The law compels no one to do impossibilities.

A receipt for money paid is not legally conclusive.

An oral agreement must be proved by evidence.

A written agreement proves itself.

The law prefers written to oral evidence, because of its precision.

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